


# *Home Owners'*

CATALOGS





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# HOME OWNERS' CATALOGS

119 West 40th Street, New York 18, New York

THE F. W. DODGE CORPORATION'S

CONSUMER CATALOG  
DISTRIBUTION SERVICE

DEAR HOME-PLANNER:

Almost a million home-planners who "didn't know where to turn next" have turned for guidance to the book you now hold in your hands. Like you, they qualified to receive Home Owners' Catalogs absolutely free.

The idea came to us about twenty years ago: Why shouldn't home-planners have at their fingertips complete information - as supplied by leading firms - about the many quality products and services that make a house a home? And because home-planning time is a busy time, why shouldn't home-planners receive such information in the most convenient form - between the covers of a book?

The idea sprouted - and grew. Today, Home Owners' Catalogs contains hundreds of pages of stimulating ideas and interesting facts. Now, even though there are so many things for you to think about, you know where to turn next.

The products and services you read about in this book will spell comfortable living for you and your family when you include them in your new home. The firms represented in Home Owners' Catalogs are outstanding leaders of American industry. They are ready - and very able - to serve you.

If you would like to voice your candid opinion of Home Owners' Catalogs, we will be more than delighted to hear from you.

And, if there is any information you want on specific products or services not described in Home Owners' Catalogs, use this easy-to-remove letter - just turn it over and tell us what you want. We'll be glad to try to obtain the information for you.

We wish you real happiness and pleasure as you plan and build your new home. And we sincerely hope you will remember to turn to the firms you find in this library edition of Home Owners' Catalogs - they are the ones who bring you this valuable service.

Cordially,

HOME OWNERS' CATALOGS

*T. O. Morgan*  
T. O. Morgan  
General Manager

TOM:dmc



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  - Remove this letter from the book.
  - Place in envelope and mail to the following address:

Mr. T. O. Morgan, General Manager  
HOME OWNERS' CATALOGS  
119 West 40th Street  
New York 18, N. Y.

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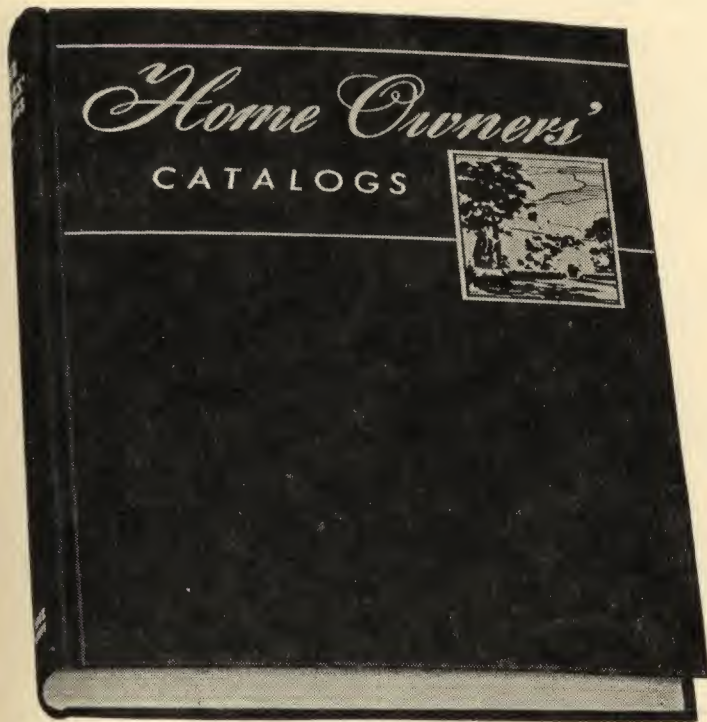
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# Home Owners' Catalogs—

**sent to your home-planning friends at your request—**

will be most valuable to them when they receive their copies before architectural plans are started.

The "Guide to Home Planning" and wealth of profusely illustrated catalog information in this book will greatly assist them to decide what they want for their new home.

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Their Architect is.....

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# *Home Owners'* CATALOGS

REG. U. S. PAT. OFF.

Designed to serve those who are planning their own homes as a guide, a reference work and a valuable, practical aid in the selection of building materials, equipment, appliances and furnishings best suited to meet their needs and desires.



A Service of

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**INDEX INFORMATION . . .** For your guidance. You will want to read Home Owners' Catalogs from cover to cover but for re-reference and so that you may more readily locate the home product or service in which you or your family are interested at any specific time, we have established on the following pages, index classifications under products.

Because the bound catalog pages in this volume are **not** numbered in sequence we have inserted the catalogs in alphabetical order according to the names of the companies whose catalogs appear therein. This will make it easy for you to locate the home planning information, products or services in which you are interested. Simply refer to the desired index classification and look for the bound-in catalog in alphabetical, company-name sequence

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The Mosaic Tile Company

#### PLASTIC LAMINATED SURFACING

The Formica Company

#### STRUCTURAL GLASS

Libbey-Owens-Ford Glass Company

Pittsburgh Plate Glass Company

### WASHING MACHINES

#### AUTOMATIC—ELECTRIC

Frigidaire Division, General Motors Corporation

General Electric Company—Appliance and Merchandise Department

Hotpoint, Inc.

#### CONVENTIONAL

General Electric Company—Appliance and Merchandise Department

Hotpoint, Inc.

## WATER HEATERS

### ELECTRIC

Combustion Engineering-Superheater, Inc.

Crane Co.

Frigidaire Division, General Motors Corporation

General Electric Company—Appliance and Merchandise Department

Hotpoint, Inc.

Rheem Manufacturing Company

### GAS

Combustion Engineering-Superheater, Inc.

Crane Co.

Rheem Manufacturing Company

### OIL

Crane Co.

Rheem Manufacturing Company

## WATER SOFTENERS

Crane Co.

Rheem Manufacturing Company

## WINDOW INSULATION

Libbey-Owens-Ford Glass Company

Pittsburgh Plate Glass Company

## WINDOWS

### BASEMENT—STEEL

Truscon Steel Company

### CASEMENT—STEEL

Truscon Steel Company

### DOUBLE HUNG—STEEL

Truscon Steel Company

### STORM—STEEL

Truscon Steel Company

## WINDOW SCREENING

### BRONZE

Chase Brass & Copper Co.

## WIRING

### CONCEALED TELEPHONE

American Telephone & Telegraph Company\*

### ELECTRICAL

National Electric Products Corp.

### LIGHTING SYSTEM—REMOTE CONTROL

General Electric Company—Construction Materials Department

Square D Company

## WOOD FLOORING

### OAK BLOCK FLOORING

National Oak Flooring Manufacturers' Association\*

### PARQUET FLOORING

National Oak Flooring Manufacturers' Association\*

### PLANK FLOORING

National Oak Flooring Manufacturers' Association\*

### STRIP FLOORING

National Oak Flooring Manufacturers' Association\*

\* Do not manufacture—information supplied as a service for home-planners.



# Guide to Home Planning



★ Prepared by  
EDITORIAL STAFF, ARCHITECTURAL RECORD

★ Published by F. W. DODGE CORPORATION

FOR HOME OWNERS' CATALOGS



## You plan your home . . .

Planning your own home is a glorious adventure for all the family. It is a tremendous step you are taking, and may seem a little bewildering at first. Probably never again will you spend so much money on one thing. So you simply cannot afford to make mistakes, mistakes you might have to live with for the rest of your days.

That's why you should go at this job slowly and seriously, using the best professional advice. This Guide is part of that advice, designed to eliminate some possible blunders. Dependable help makes home planning absorbing and rewarding, fun while you're doing it and a joy for years to come in the pleasure the finished product gives you.

Home planning in its first stage is partly a family question-and-answer game. You know you want a home. But do you know exactly what *kind* of a home—and a setting—you want? If you do you're almost unique. Practically everyone is agreed on generalities. They want homes which are well planned, well built, handy, comfortable and attractive, but they are hazy as to materials they prefer, whether this or that heating is the thing, where to use fluorescent lights, and about porches and front halls, and whether it's a good idea to substitute a dining area for a dining room.

Now no one but you can answer many of the dozens of questions which are going to come up. But right now you probably don't know half the questions and certainly not the answers yourselves. This Guide is packed with vital questions to help you clarify your own ideas and make necessary decisions.

After you know *where* you will build, supply yourself with a folder, lots of paper and plenty of sharp pencils before you begin. As you discuss, make decisions and fill in answers, make ample notes. If you leaf through the question

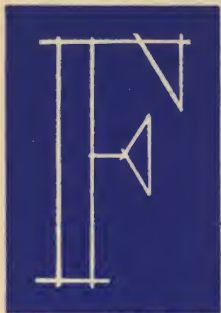
lists now, you'll find there are many questions you're not yet ready to answer. When you've finished studying these pages, you'll be much surer about the answers.

You will save yourself some disappointments if you set a rough budget before you get too far in your planning. It's good to have a springboard figure of what you can afford. Considered a good way to arrive at this is to multiply your year's income by one-and-a-half. This will give you a safe cost for the house you can afford. Then multiply your yearly income by three and you have a maximum figure of cost. The final, over-all cost of your new home had best lie between these two amounts, just where being partly conditioned by how much cash you can put into your down payment.

When you've got your financial status down pat and your rough architectural plans in hand, go and talk your project over with a member of a responsible money-lending institution in your community. One of the first things they'll be interested in is the neighborhood you plan to build in. The chances are you've spent many Sundays looking at sites and deciding just that. Only after you've picked your lot and straightened out a financing system, will you be ready to have final working drawings made and out for bids. But let's get back to the planning!

Professional architectural advice is necessary to sound home planning. However, to get the most for the money you pay for this service, you'll do well to be clear as possible what kind of house you honestly want before you take your problem to the expert. He can realize your ideas in bricks and wood and stone and metal only if you can tell him precisely what they are. So gather the family around the conference table and start planning.





## irst things come first . . .

When it comes to home planning, every single member of the family should have his or her say, because you're all going to live together here, and God willing, be happy under this roof. Listen to all voices around the family council table. This makes a fine democratic set-up, but it isn't going to work unless you all know what it's practical to have.

There's been a lot of talk about new developments in building materials and methods. Some of these are wonderful improvements, and some of them are far, far in the future. Start by bringing yourself up-to-date, getting a grasp on the facts. Read the pages of this book through attentively and then you'll have a basic knowledge of what's what. When you've finished your preliminary run-through, tackle the questionnaires, consulting together, and fill them in as far as you're able to.

About now is the time to get out cross-section paper and to make your sketch diagrams of room layouts (see page 8). Try arranging room units in a general over-all scheme, bearing in mind the nature of your lot (best exposure, prevailing breeze, slope, areas for outdoor living, etc.). Don't get too agitated if you can't devise a scheme which works. Actually, that is the job of an architecturally-trained expert, but by making rough layouts you will prepare yourself to tell him some of your ideas. Try to establish dimensions which take into account the new furniture which you will want, so it will fit in pleasantly and conveniently.

Spread your sketch planning over a number of sessions and a number of weeks. Compromises are effected gradually. Flash ideas, at first hotly defended, subside. You're going to live in this house a long time. You can afford to take time to get it right.

When you've got a fairly unanimous picture of what you like, find your expert and start working with him on it. The matter of money will now become increasingly important, because he is trained to be able to give you rough estimates from early sketches. Don't be down-hearted if you have to cut your cloth to fit your purse. Nine times out of ten an even better plan will emerge, sparer and more efficient than your first dream.

Though you are full of enthusiasm for the life you will lead in your new home, in sober fact you should remember that one day you may want to sell it. From this point of view it's sage to curb any leanings toward bizarre or odd features.

When you have acceptable sketch plans it is time for you to go back to your financing institution. You are armed with some estimated figures, ready to learn how best to swing the money end of your home.

It is only when all this spade work is over that you will be ready to have final plans, working drawings, "blueprints" made. Naturally your expert will draw them, but don't be intimidated into accepting the plans if you're not wholly satisfied. Continue to make necessary changes and improvements until you have things right. They are simple on paper; they will be impossible later without added costs and heartbreak after construction has started.

The list that follows has been arranged to make it easy for you to add pencil comments. Take full advantage of this feature. Now is the time to record all your ideas in full. Later will be too late.

Check or fill in all the items you can on the next page thinking always of what you really want to do in your new home, and the facilities therefore to be provided.

NEEDS AND REQUIREMENTS CHECK LIST ON FOLLOWING PAGE





# Needs and Requirements Check List

## MRS.

PROFESSION OR OTHER WORK.....Office work at home ☐ Requires space.....FT. BY.....FT.  
 Studio ☐ Music room ☐ Requires space.....FT. BY.....FT.

HOBBIES OR COLLECTIONS (list)..... Requires space.....FT. BY.....FT.

SPORTS (list)..... Requires space.....FT. BY.....FT.

OTHER ACTIVITIES.....

SPECIAL REQUIREMENTS.....

SLEEPING { Separate bedroom ☐ Shared with.....Size of room desired.....FT. BY.....FT.  
 Beds: twin ☐ double ☐ single ☐ sleeping porch ☐ Windows open N ☐ S ☐ E ☐ W ☐  
 Other comments.....

DRESSING { Separate dressing room ☐ Built-in units.....  
 Combined dressing room and bath ☐ Combined dressing room and wardrobe ☐  
 Vanity ☐ Dresser ☐ Triple mirror ☐ Full length mirror ☐ Safe ☐

CLOSET AND STORAGE SPACE { for the following number of  
 suits....., dresses....., hats....., coats....., shoes....., sport clothes.....,  
 Other clothing (list).....

SPECIAL FURNITURE OR EQUIPMENT (list) Mothproof storage space ☐ Fireplace ☐ Telephone ☐  
 Radio ☐

## MR.

BUSINESS OR PROFESSION.....Office work at home requires space.....FT. BY.....FT.

HOBBIES OR COLLECTIONS (list)..... Requires space.....FT. BY.....FT.

SPORTS (list)..... Requires storage space.....FT. BY.....FT.

OTHER ACTIVITIES.....Special requirements.....

SLEEPING { Separate bed room ☐ Shared with.....Size of room desired.....FT. BY.....FT.  
 Beds: twin ☐ double ☐ single ☐ sleeping porch ☐ Windows open N ☐ S ☐ E ☐ W ☐  
 Other comments.....

DRESSING { Separate dressing room ☐ Combined dressing room and bath ☐ Combined dressing room  
 and wardrobe ☐ Dresser ☐ Mirror ☐ Safe ☐ Built-in units (describe their use).....

CLOSET AND STORAGE SPACE for the following number of suits....., shoes....., hats....., coats.....,  
 Other clothing (list).....

SPECIAL FURNITURE OR EQUIPMENT (list) Mothproof storage space ☐ Fireplace ☐ Telephone ☐  
 Radio ☐



## CHILDREN

NAME..... AGE.....  
HOBBIES AND SPORTS..... Requires space..... FT. BY..... FT.  
WORK OR STUDY SPACE REQUIRED..... FT. BY..... FT. Storage space..... FT. BY..... FT.  
SLEEPING. Separate bed room ☐ Shared with..... Desired size..... FT. BY..... FT.  
Bed: Single ☐ Double ☐ Twin ☐ Single bunk ☐ Double deck bunk ☐ Windows open N ☐ S ☐ E ☐ W ☐  
DRESSING. Separate dressing room ☐ Built-in units.....  
CLOSET AND STORAGE SPACE for the following number of suits....., dresses....., hats....., coats....., shoes.....  
Also space..... FT. BY..... FT. for storage of toys and games.....  
SPECIAL FURNITURE (list).....

NAME..... AGE.....  
HOBBIES AND SPORTS..... Requires space..... FT. BY..... FT.  
WORK OR STUDY SPACE REQUIRED..... FT. BY..... FT. Storage space..... FT. BY..... FT.  
SLEEPING. Separate bed room ☐ Shared with..... Desired size..... FT. BY..... FT.  
Bed: Single ☐ Double ☐ Twin ☐ Single bunk ☐ Double deck bunk ☐ Windows open N ☐ S ☐ E ☐ W ☐  
DRESSING. Separate dressing room ☐ Built-in units.....  
CLOSET AND STORAGE SPACE for the following number of suits....., dresses....., hats....., coats....., shoes.....  
Also space..... FT. BY..... FT. for storage of toys and games.....  
SPECIAL FURNITURE (list).....

NAME..... AGE.....  
HOBBIES AND SPORTS..... Requires space..... FT. BY..... FT.  
WORK OR STUDY SPACE REQUIRED..... FT. BY..... FT. Storage space..... FT. BY..... FT.  
SLEEPING. Separate bed room ☐ Shared with..... Desired size..... FT. BY..... FT.  
Bed: Single ☐ Double ☐ Twin ☐ Single bunk ☐ Double deck bunk ☐ Windows open N ☐ S ☐ E ☐ W ☐  
DRESSING. Separate dressing room ☐ Built-in units.....  
CLOSET AND STORAGE SPACE for the following number of suits....., dresses....., hats....., coats....., shoes.....  
Also space..... FT. BY..... FT. for storage of toys and games.....  
SPECIAL FURNITURE (list).....

OTHER RESIDENT (name)..... Relationship.....  
SPECIAL CONSIDERATIONS.....  
.....  
.....

# Needs and Requirements Check List

## GROUP ACTIVITIES

TYPES OF ENTERTAINMENT: (maximum number of guests to be filled in blanks)

DINNERS.....	MUSICALS.....	TEAS.....
CLUB MEETINGS.....	LUNCHEONS.....	GARDEN PARTIES.....
HOME MOVIES.....	DANCES.....	GAMES (children).....
CARD PARTIES.....	BUFFET SUPPERS.....	TELEVISION.....

## GENERAL REQUIREMENTS SUMMARY

LIVING ROOM Size.....FT. BY.....FT. Ceiling height.....FT. Living room activities.....  
 Is close relation between indoor and outdoor living spaces desired YES ☐ NO ☐

DINING ROOM Size.....FT. BY.....FT. Separate ☐ Combined with.....

LIBRARY OR DEN Size.....FT. BY.....FT. How many feet of shelving.....Fireplace ☐

POWDER ROOM Size.....FT. BY.....FT. Lavatory ☐ with door to.....

GAME ROOM Size.....FT. BY.....FT. Where located.....  
 Special requirements.....

GARAGE Number of cars..... Other uses: Work bench ☐ Garden Tools ☐ Bicycles ☐  
 Storage for.....

OUTDOOR LIVING AREAS DESIRED Covered porch ☐ Screened porch ☐ Terraces ☐ Upper level sun  
 decks ☐ Green house ☐ Sun room ☐

STYLE OF HOUSE DESIRED (Type of architecture).....  
 One story house ☐ Two story house ☐ Is basement desired YES ☐ NO ☐

USES OF BASEMENT Hobby shop ☐ Home work shop ☐ Game room ☐ Photographic dark room ☐  
 Storage for.....  
 .....  
 .....

SPECIAL CONSIDERATIONS.....  
 .....  
 .....  
 .....  
 .....



# Your land and your home . . .

You probably have your lot but if you haven't one already, two questions should keep running through your mind—Do we like this community? and will such-and-such a site be suitable for the house we have in mind?

Around the question of neighborhood cluster a number of considerations:

- Have we friends in the neighborhood or are we going to like the people who live here? Are their children our children's ages?
- Is it handy to stores, schools, buses, places of worship and all the things which go with family life?
- Is it an up-and-coming neighborhood, crisp and neat, showing community pride?
- Are there the services which we shall require like electricity and gas, water and sewers, surfaced roads, pavements, fire and police protection, etc? These last have a bearing on your insurance rates.
- Is it acceptable for a mortgage? (Remember this will affect your loan.)

For the budget, note that the price of urban or suburban land usually should not exceed 20 per cent of your over-all expenditure. In the country it may be as low as 5 per cent, but there you will probably have to install some of your own services, dig a well and sewage system, bring in or make electricity, even build a road.

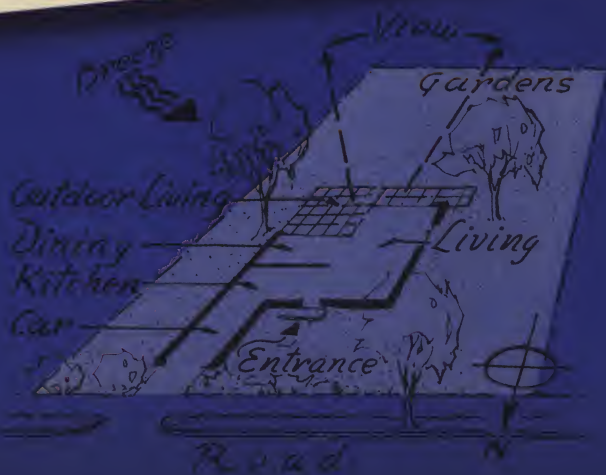
To go back to the second of the crucial questions, the suitability of the site to your house, you may find your land before you begin designing your home or you may begin planning your home and then find your lot. Either way the site and the building must be treated so that they end up in the closest possible harmony.

Where the house will stand and which way it will face come under the head of *orientation*. What that means to you is planning to make the most of the view, of the sun throughout the day, and of the prevailing breeze. Also to get the most privacy. Home building experience shows that in general it's good to have living rooms face south, southeast, or east, the kitchen any direction but west (to avoid the broiling late

afternoon sun), workrooms in a northerly direction (uniform, unglaring light). Bedrooms, used largely at night, can face any direction, but look out for eastward windows at the foot of your beds if you don't mean to get up with the birds. The diagram below shows how rooms can be arranged suitably as far as the compass goes.

But there are other considerations. A house planned for a level lot is unfitted to take advantage of certain charming features which can be devised for a hillside site, and vice versa. One treatment, ideal for a corner lot, may lose all validity on an inside lot. And don't forget the landscaping possibilities, where you will have a garden, lawn, play-space, outdoor living areas, and where trees will be to give shade or privacy. (Lawns and landscaping are discussed at greater length on page 27.)

Finally there is a slightly intangible factor which is still terribly important. The kind of community you're moving into and the kind of lot you're building on may decide the plan and style of your house. It would be poor taste to build a house out of keeping with the neighborhood in style, size or cost. But let's get on with our planning.





# You draw a plan . . .

The easiest and most accurate way to set about making rough plans is on cross-section or graph paper. It is ruled into  $\frac{1}{8}$  inch squares by light blue lines. You can buy it by the sheet or the pad at your stationer's.

Decide on a scale. A square on the paper to indicate a square foot of house is handy. But if you make the sides of two squares equal one foot, you have  $\frac{1}{4}$  inch scale, and the furniture drawings on page 10 may be traced and cut out so that you may fit them onto your plans. "Quarter inch scale" means that  $\frac{1}{4}$  inch measured on paper indicates 1 foot in the actual house.

Don't bother with refinements like thickness of walls. Your architectural expert can take care of all

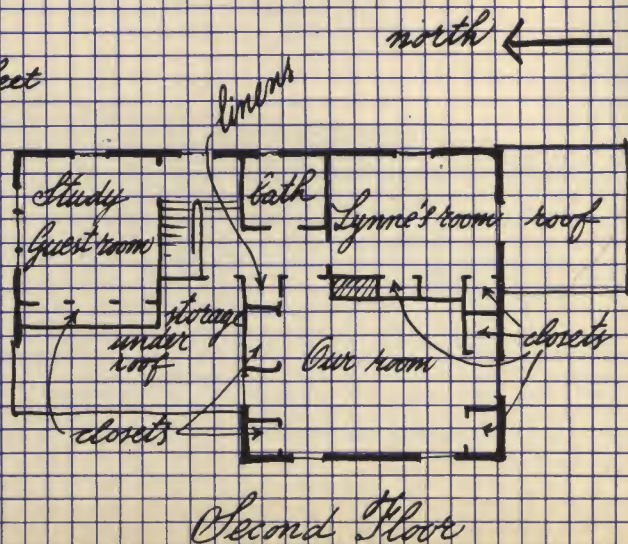
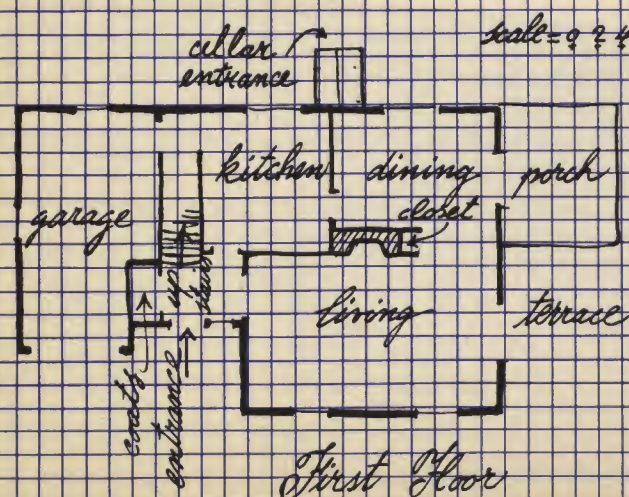
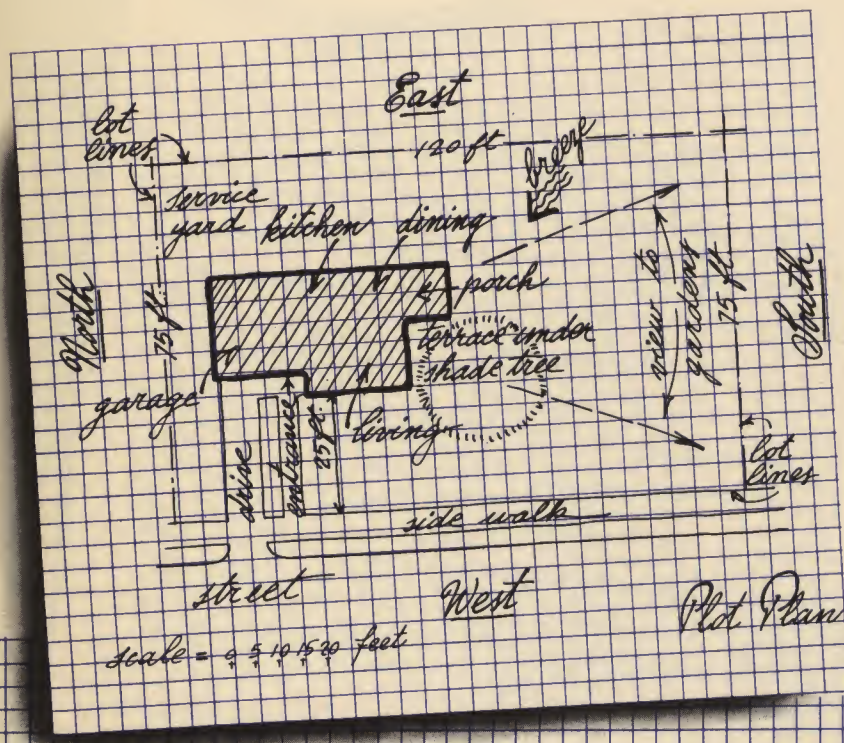
that. What you are after is general proportion and relationship of rooms to each other on the lot. To arrive at this you will first have to make a plot plan. Here you will naturally employ a smaller scale, the side of a square equalling perhaps 5 feet. Besides putting the points of the compass where they belong, indicate prevailing wind, sun, view and other orientation factors. So start with plot plan to decide on the general location of the room in relation to sun, wind, view, street, etc. (See diagram, left.)

Then at a larger scale ( $\frac{1}{8}$ " = 1 foot is good for these preliminary schematic plan sketches) begin with the living room, the room which will be the center of your lives, and fit the parts of the house to that. It is no more important than any other room, but it seizes the imagination, for it is the heart and holds the hearth.

When you have a plan scheme that seems about right at this scale—draw it at quarter inch scale and arrange your furniture "cut-outs" on the plan. This will help locate doors and windows so there will be wall-space and clearance space. Your final working drawings and blue prints will be at this scale too. ("Cut-outs" are shown on page 10.)

Turn to the check lists which will remind you of many planning features vital to the smooth running of the whole house.

Sketches show a plot plan and a rough house plan drawn on cross-section paper. They do not include every last detail which will go into your house, but they do have the main design elements. You may be sure, in using them as an additional check, and in following a similar method you will be crystallizing your ideas in the logical way.





# ABC's of planning . . .

Your house is taking form. You have checked the Needs and Requirements List. You know the number of rooms you will have, about where they will be, something about their size. Now you can get down to studying whether your room layouts are going to work. The best way to discover this is by asking yourself what you will want to do in any one room, and then seeing whether you can do it as you've set it up.

Front hall first. Can it be reached under cover from a car on rainy days? Does it prevent casual callers seeing all that goes on in the living room? Does it also prevent chilly drafts? Does it have adequate closet accommodations where outer garments and overshoes can be put? Can the floor be freed of mud and dampness easily? Long halls are not only inconvenient, they're also expensive since the more compact the final plan, the shorter the outside walls.

At times the living room is a place for entertaining. Can a group gather cozily around the fireplace, play games? Have you provided storage space for game equipment? Will a gathering of friends divide up naturally into friendly groups as your furniture is placed?

At other times the living room may mean a place for reading, sewing, doing homework, keeping house accounts. Is there place for the easy chairs, sofas, tables, desk, for doing these things? Room for armchair tables? Well located outlets for the right lighting without interminable and entangling electric cords? Have you ample shelf space for collections, if you're a family of hobbies? Built-in cabinets for albums or phonograph records?

The dining room is far less flexible and so less complicated to arrange, but it takes some doing. The big decision to make here is whether it will be an integral part of living room or kitchen, or a room of its own. Either way you won't want the dining room table any further from the range than need be and you must have china-linen-glass-silver storage areas handy. Be sure, too, that you leave adequate lanes for serving.

The kitchen has become a scientifically planned food preparation center, and so a delight to work in. Appliance manufacturers have engineered it to a state of wonderful exactness. Unless you have strong convictions about special features, the home owner cannot do better than to study the basic layouts they have evolved (see pages 16 and 17), designed to fit snugly into various shaped spaces. But you must decide where the laundry is to be done, and whether the basement will be handed over to the youngsters for entertaining, used as a workshop, or store room, or both. Where will you place your heating units?

When you get to the bedrooms, be sure you leave ample, unbroken wall areas for bed heads, dressers and dressing tables. Do have enough free floor space for a slipper chair or two. Readers-in-bed will make sure of the electric outlets so that reading lamps can be just right.

Have you left room in the bathroom for a generous clothes hamper? Will the medicine chest be big enough for accumulating adhesive rolls and cough syrups? Is the linen closet near at hand? Are there outlets for your electric razor, the electric heater and such?

Take great pains in all rooms to see that light switches are placed where they seem handiest to you. Be sure steps are brightly lit for safety. Finally garner every inch you can for storage. Closets and store rooms can make all the difference between comfort and crowding. Closets designed and equipped for the things they will store save lots of space.

In order that you may allow adequate space for various pieces of furniture, a page has been devoted to  $\frac{1}{4}$  inch scale diagrams from which you can trace cutouts. Dimensions are average, but many variations in size do occur, so do not take these as final. Cut out the furniture diagrams from your tracings, making as many duplicates as you need. Then test the workings of your  $\frac{1}{4}$ " scale plan by arranging the furniture cut-outs in the rooms. It is a good idea to fill out the check lists for each room first.



# Typical furniture pieces ...

SCALE:  $\frac{1}{4}" = 1'-0"$   
L = LENGTH • D = DEPTH • H = HEIGHT

## LIVING ROOM



L 2'-6"  
D 3'-0"  
H 3'-0"



L 2'-3"  
D 2'-6"  
H 3'-0"



L 2'-6"  
D 2'-6"  
H 3'-0"

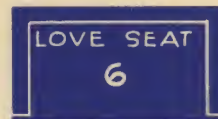


SIDE  
BRIDGE  
OR DESK  
L 1'-6"  
D 1'-6"  
H 2'-6"



SMALL  
L 6'-0"  
D 2'-6"  
H 3'-0"

LARGE  
L 7'-0"  
D 3'-0"  
H 3'-0"



SMALL  
L 3'-6"  
D 2'-0"  
H 2'-3"

LARGE  
L 4'-6"  
D 2'-6"  
H 3'-0"



L 4'-0" TO 6'-0"  
D 2'-0" TO 3'-0"  
H 2'-6"



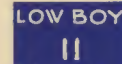
L 2'-8" TO 3'-8"  
D 1'-6" TO 2'-0"  
H 6'-2" TO 7'-2"



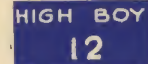
L 2'-8" TO 3'-8"  
D 1'-6" TO 2'-0"  
H 3'-6"



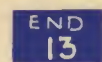
L 4'-0" TO 5'-0"  
D 1'-6"  
H 6'-2" TO 7'-2"



L 2'-6" TO 2'-8"  
D 1'-6" TO 1'-8"  
H 2'-4" TO 3'-2"



L 3'-0" TO 3'-6"  
D 1'-6" TO 2'-0"  
H 5'-0" TO 7'-0"



L 2'-0"  
D 1'-3"  
H 2'-0"



L 1'-8"  
D 1'-8"  
H 2'-0"



L 2'-2" TO 3'-0"  
D 1'-8" TO 2'-0"  
H 1'-6"



L 2'-6" TO 3'-0"  
D 2'-6" TO 3'-0"  
H 2'-6"



L 5'-6"  
D 5'-0"  
H 3'-4"



L 5'-0" D 2'-0" H 4'-3"

MINIATURE PIANO  
L 4'-8"  
D 1'-7"  
H 3'-0"



DIAM. 2'-6" TO 3'-0"  
H 1'-4" TO 1'-8"



DIAM. 2'-4" TO 3'-0"  
H 2'-3" TO 2'-6"



DIAM. 2'-0"  
H 2'-1" TO 2'-7"

## DINING ROOM



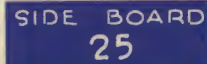
L 1'-6"  
D 1'-6"  
H 2'-6"



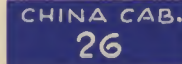
L 2'-0"  
D 2'-0"  
H 2'-6"



L 2'-6" TO 3'-6"  
D 1'-2" TO 1'-9"  
H 2'-8" TO 3'-0"



L 4'-0" TO 6'-6"  
D 1'-5" TO 2'-1"  
H 3'-2"



L 2'-8" TO 4'-0"  
D 1'-2" TO 1'-9"  
H 5'-2" TO 6'-2"



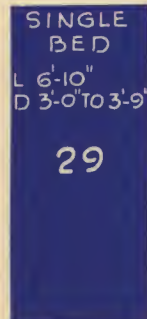
L 3'-0"  
D 1'-6"  
H 5'-8"



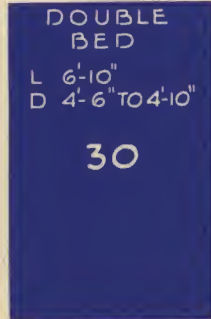
L 3'-6" TO 8'-0"  
D 2'-6" TO 4'-0"  
H 2'-6"

ROUND TABLES  
2'-7" TO 5'-9" DIAM.

## BEDROOM



L 6'-10"  
D 3'-0" TO 3'-9"



L 6'-10"  
D 4'-6" TO 4'-10"



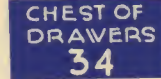
L 1'-6"  
D 1'-6"  
H 2'-6"



L 2'-0" TO 2'-10"  
D 2'-0" TO 3'-2"  
H 2'-6"



L 3'-0" TO 4'-0"  
D 1'-6" TO 2'-0"  
H 2'-10" TO 3'-1"



L 2'-8" TO 3'-4"  
D 1'-6" TO 1'-9"  
H 3'-8" TO 4'-8"



L 1'-2" TO 2'-0"  
D 1'-2" TO 2'-0"  
H 2'-6"



L 3'-0" TO 4'-0"  
D 1'-6" TO 1'-10"  
H 2'-6"



L 4'-0" TO 5'-6"  
D 2'-0" TO 2'-6"  
H 2'-6"



# Entrances, hall or foyer . . .



The entrance hall of your home says, "Welcome". It gives the invaluable first impression. So don't let it be cramped, colorless, impersonal. Make it attractive as well as useful. The foyer affords privacy for the rooms beyond. It cuts off drafts. It usually has a closet where hats and coats, umbrellas and galoshes and such are kept. Even better, if your budget permits, there is a downstairs lavatory off it, with room for a dressing table and full length mirror.

The foyer takes hard wear, people coming in out of all weathers. Plan a floor which can take it. Also, have the entrance well heated.

The main trouble in making a successful entrance hall is that its walls must be broken by so many doors. Try to group these so that they are orderly. And save at least one length of wall for a chair or bench where anyone who must

wait can be seated. Reserve space for a small but terribly useful table, for door chimes, for telephone stand. And plan the lighting with care.

If it is humanly possible, devise the placing of your garage so it leads into your house, so you can get to the kitchen with packages without going outdoors.

At the same time, weigh the advantages of an outside exit to your basement.

The service entrance must be considered too, placed where it will be convenient for deliveries to be made but not so conspicuous that it will detract from the front entrance. At the side or the back is usually best. And near it you will need a neat concealed place for the receptacles for waste and garbage. Many an otherwise good looking house is unsightly because these things were not thought of.

## CHECK LIST

THE MAIN ENTRANCE WILL BE TO THE NORTH ☐ SOUTH ☐ EAST ☐ WEST ☐

It will be entered from front ☐ side ☐

It will open into a hall ☐ living room ☐ foyer ☐

There will be doors to the clothes closet ☐ living room ☐ dining room ☐ bed room ☐ study ☐  
kitchen ☐ powder room ☐

Windows will be fixed ☐ casement ☐ double hung ☐ glass blocks ☐

Lighting will include, wall bracket ☐ ceiling fixture ☐ floor lamp ☐ table lamp ☐ light in closet ☐

Electrical outlets, base plugs ☐ door chimes ☐ switch for outdoor flood lights ☐ telephone ☐ and switches ☐

THE POWDER ROOM WILL BE ENTERED FROM THE hall ☐ separate hall ☐ or from.....

Windows will be fixed ☐ double hung ☐ casement ☐ glass blocks ☐

Lighting will be..... Ventilator ☐

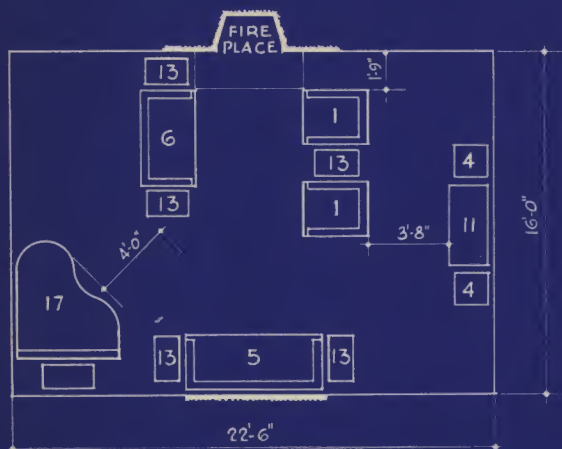
THE GARAGE DOORS WILL BE upward acting ☐ swinging ☐ folding ☐ sliding ☐ automatic control ☐

The garage will include space for workshop ☐ and additional storage ☐

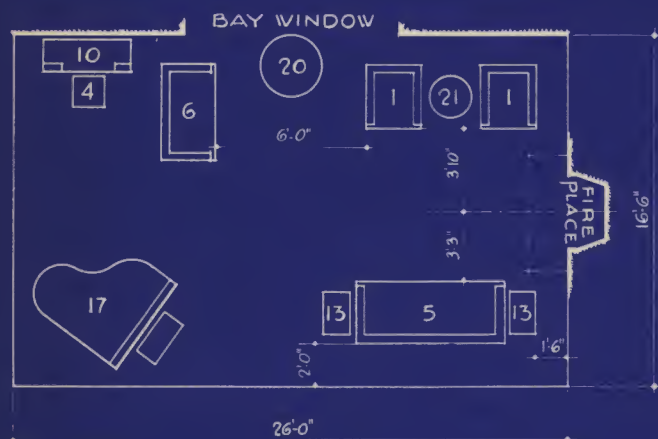
SPECIAL NOTES.....



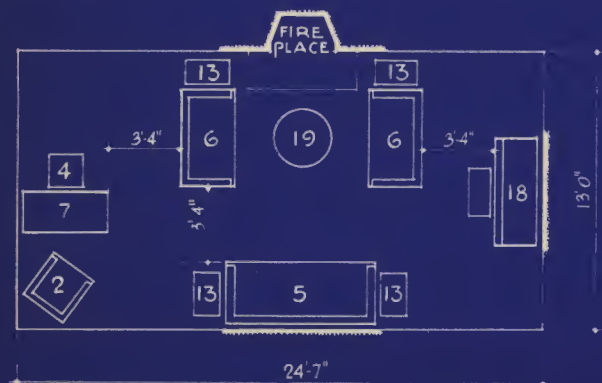
# The living room ...



1. Primary furniture is grouped closely about the fireplace. Piano is parallel to wall to provide maximum space in living room.



2. In all the suggested plans shown, bay or picture windows may be used as a focal point instead of the fireplace.



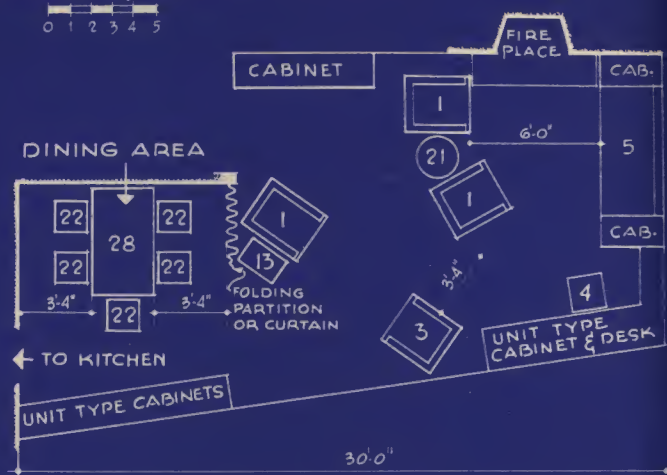
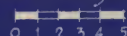
4. Writing or study group at left, music or game group at right, and center primary group, for conversation, tea, relaxation, etc.

This is the room where you will mostly live, the heart of your home. In it you, as a family, will work and play and entertain your friends. Don't copy Mrs. Charles' living room, even though you had a lovely time there. The Charles live for their music, have the main furniture group around the radio and piano. Your family delights, say, in games or outdoor living. Therefore an entirely different sort of room for living is going to suit you.

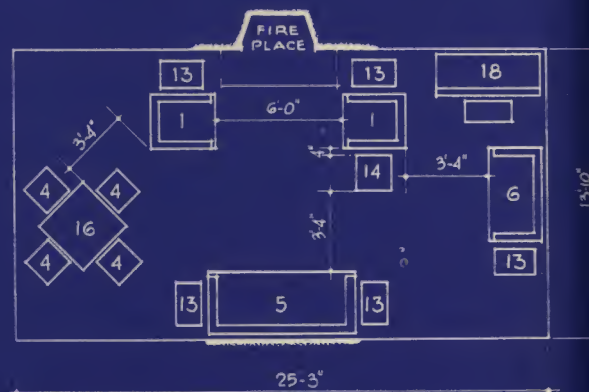
But there is one practically universal living room feature you're bound to want. That is the fireplace, the hearth. If possible have it on a window-less wall, since competition with sunlight vitiates the friendly brightness of the fire. Be sure to have it where furniture drawn up around it is out of main traffic lanes. Allow for a place to store firewood neatly. Remember that your fire will keep you warm as well as content so consider building a heat circulating unit into the fireplace and chimney.

In all parts of the room study your traffic problems as

Scale of drawings in feet



3. This plan using non-parallel walls combines living-dining activities and provides more than average storage space.



5. Game-table group occupies almost the same floor area as a grand piano. Placement at an angle is intended for informal room use.



rapidly as though you were a cop. There will be coming and going, of course, but if your living room degenerates into a passageway between front door and back, stairs and kitchen, terrace and dining room, it is a failure. One way to avoid this is to set doors which lead to other parts of the house as close to each other as practical, so that passers-through won't have to tour the whole room.

Plan the living room size and shape to accommodate what you will do in this space: games, reading, viewing television, listening, talking, sewing, etc. In each case make room for a group so you can sit down together. If a window-wall is desired, plan for easy accessibility to outdoor areas. Also provide storage room for special purpose tables, portfolios, games and the rest.

This sounds as though the living room were going to have to be enormous, but furniture groupings can be used for more than one purpose. Under-scaled rather than over-scaled pieces of furniture will help to consolidate space.

Orderly arrangement is the real key to getting a lot of living from every square foot. It can be arrived at only by the most careful planning, the most searching discussion.

Whether your room be small or large, it should look right, serene. This is achieved in part by having good proportions of length to width to height. Here your trained expert will know the answers. But to help you in rough planning, a room whose width is to its length as 3 to 4, or 4 to 5, is in good proportion and your expert will work out the proper ceiling height.

On page 10 are scale plans of furniture you may want to have. The outline drawings are for you to trace and cut out and arrange on your plan, so that you can experiment with placement. They are scaled  $\frac{1}{4}$  inch to the foot and represent standard, though not invariable furniture sizes. Windows and doors do not appear on the plans shown, but heavy lines indicate best positions for unbroken walls in relation to furniture groupings.

## CHECK LIST

Mark ? for further consideration.  
Mark ✓ if O.K. for plans.

The general exposure of the living room will be SOUTH ☐ EAST ☐ NORTH ☐ WEST ☐

The principal view will be towards the garden ☐ street ☐

Entrances to room from hall ☐ kitchen ☐ study ☐ terrace ☐ porch ☐

Windows: casement ☐ double hung ☐ fixed ☐ sliding ☐ picture windows ☐ french doors ☐  
glass block ☐

Lighting: wall brackets ☐ floor lamps ☐ table lamps ☐ cove lighting ☐ spot lights ☐

Adequate electrical outlets: radio ☐ lamps ☐ clock ☐ telephone ☐ Servants' call bell ☐

The fireplace of stone ☐ brick ☐ other.....equipped with ash dump ☐ log hoist ☐  
circulating unit ☐ spark screen ☐ fuel bin ☐ mantel ☐

Unit type furniture will include book shelves ☐ bookcases ☐ storage cabinets ☐ window seats ☐

Adequate space in the living room for chairs: (number of).....occasional ☐ club ☐ wing ☐  
straight chairs ☐ sofa ☐ love seats ☐ desk ☐ secretary ☐ bookcases ☐ end and coffee tables ☐

Space will also be required for a grand ☐ or upright piano ☐ television set ☐ radio ☐  
other musical instruments.....

Movie projector and screen ☐ (See also "Closets" page 19)

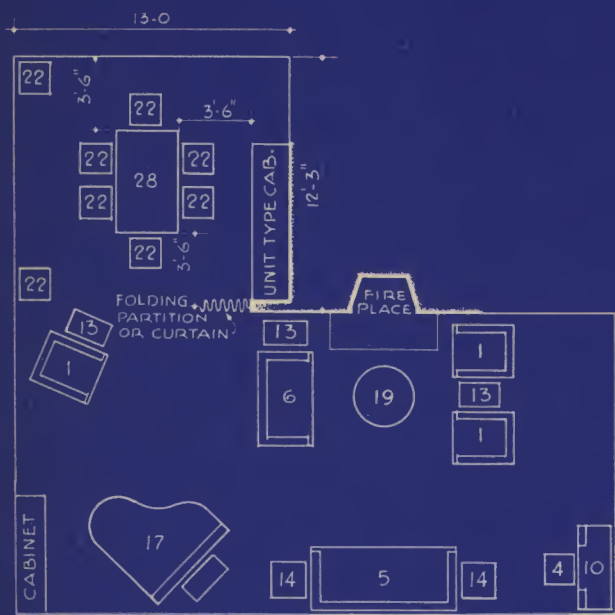
## Dining room or area . . .

Will your dining room be a part of your living room, or separate? If it's part of the living room, an "L" plan will work well, the dining area curtained or divided off by sliding partitions or folding screens. This way, table setting or clearing may be shut off, or the area made part of the living room between meals.

Wherever you do eat you will want: (a) adequate lanes for serving, (b) minimum distance between range and table, with serving surfaces between, (c) good, close-at-hand storage space for linens, silver, glass and china.

Several dining room arrangements are shown in the sketches. Here serving lanes are of minimum width. Make them wider if you can.

In your family conclaves, ask yourself whether the dining room will be used for more things than just meals. Will you play games on this table? Will the children study their lessons here? Watch your planning and lighting with the answers to these questions in mind. Make sure, too, that you've plenty of electric outlets for toaster, coffee maker and any other appliances you may be getting. Place



1. This is another example of the combined living-dining room. Unit type cabinet is used for serving and storage—conventional pieces could be substituted.

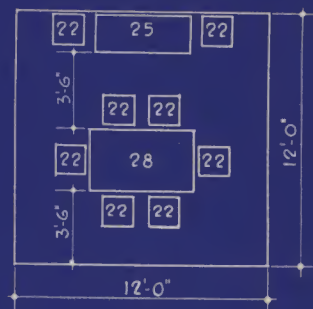


2. Dining rooms with fireplaces have to be larger than minimum for the comfort of those seated at the table. This is a typical formal suite arrangement suitable only for a large house.

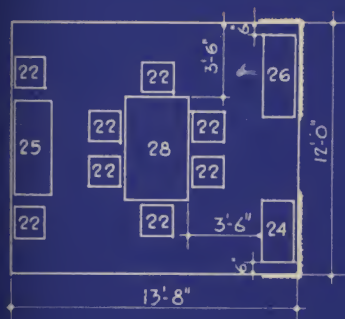


these convenient to counter, serving table or sideboard where there is room to operate them efficiently. Incidentally, you must think ahead about furniture like buffets, cabinets and the like, and allow wall space enough so that they will fit. If space is limited, unit-type cabinets, which utilize every inch, are worth considering.

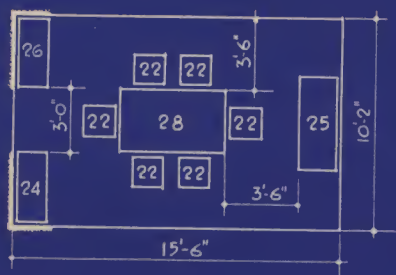
Consider having a "pass cabinet" opening from kitchen or pantry into the dining area through which dishes and trays can be passed. Under the "pass cabinet" can be a counter to serve as breakfast or snack bar, saving no end of work. Work saving and step saving features are mighty important and now is the time to put them in your plans.



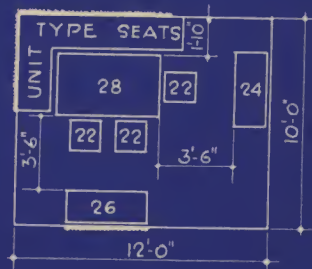
3. Minimum dining room is shown here. A space of two feet is required on one side for the buffet. Three feet additional length is necessary if an extension table is used.



4. The kitchen would be to the right end of this plan. Furniture is located on two walls only making it possible to use this scheme in a living-dining room layout.



5. A long narrow dining room results when wall pieces are at the ends, and an end entrance from the kitchen is needed, with wider doors from living room.



6. Spaces smaller than the usual minimum can be utilized if unit type seats are included, but seating and table-service comfort are sacrificed to some extent.

## ✓ CHECK LIST

- The general exposure will be NORTH ☐ SOUTH ☐ EAST ☐ WEST ☐
- Doors open into it from hall ☐ living room ☐ kitchen ☐ pantry ☐ terrace ☐ breakfast room ☐
- Dining room will be separate ☐ combined with ☐
- Separation by folding partitions ☐ drapery ☐ screens ☐ doors ☐
- It will serve \_\_\_\_\_ people. Size of table \_\_\_\_\_ rectangular ☐ round ☐
- Unit type furniture, china cabinets ☐ food or beverage bar ☐ benches ☐
- Space for \_\_\_\_\_ chairs, china closet ☐ table ☐ server ☐ buffet ☐ tea wagon ☐
- Windows: casement ☐ double hung ☐ fixed ☐ sliding ☐ french doors ☐ glass block ☐
- Lighting: cove ☐ drop fixture ☐ wall brackets ☐ Electrical outlets for perculator ☐ grill ☐
- toaster ☐ illuminated table piece ☐ radio ☐ telephone ☐ Call bell or table chime ☐

Mark ? for further consideration.  
Mark ✓ if O.K. for plans.



# The kitchen . . .

The lady of the house may well spend more time in her kitchen than any place else, so she will want it not only efficient, but also charming.

You can have a kitchen as compact and ship-shape as the galley of a yacht if you want but the trend is toward more spacious kitchens rather than smaller, but with space that is useful as well as pleasant. An informal dining corner or snack-bar is not only convenient and time-saving but can be made colorful and gay. It would be useful too as a meal-planning "kitchen office" and a place for relaxing or reading while keeping an eye or ear on the pressure cooker. Here you can keep your cookbooks, recipe cards, records and perhaps a radio.

One end of the kitchen can be divided off with a folding gate to make an easily watched play-area for the little tots. By careful planning the laundry with its labor saving machines can be combined with the kitchen in such a way that one function will not interfere with the other.

There are so many different ways of developing your

kitchen into an efficient, attractive, interesting multi-purpose room that they can only be suggested here. But there are a few principles for planning the food-preparation part of the kitchen that will save untold steps and time.

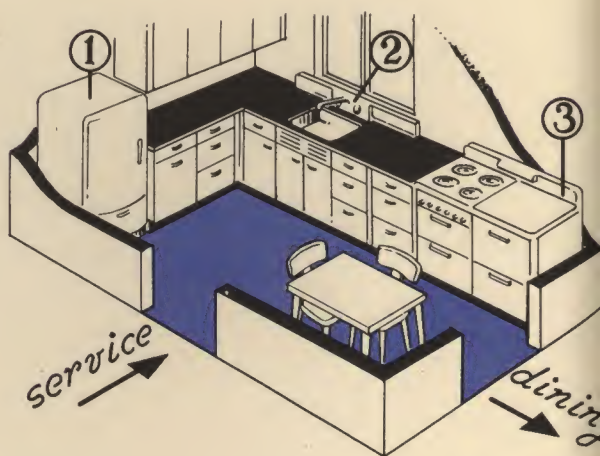
For efficiency, it has been discovered that the best way to plan is by "use-areas." There are three: (1) for food storage, (2) for food preparation and clean-up and (3) for cooking and serving. Start at the service entrance, through which food enters your house and put (1) nearest to it. Thus the hamburgers and eggs will go directly into the refrigerator, vegetables into bins, staples into cabinets. Next comes (2), of which the focal center is the sink with drain boards, counters, cabinets and drawers for utensils. The last, (3), is furthest from the back door and nearest to the serving counter or pantry or dining room.

Each of the three stages of meal making requires its own equipment, which will be grouped where it's needed. For instance, your spice assortment close by or over the stove, your vegetable brushes at the sink. You will be glad to have counters in all areas, a place to put your packages down by the door while you take off your hat, a place to put the eggs and bacon while you fish the toast out of the toaster.

Much equipment goes in cabinets and drawers under and over the counters. Plan their placement with a woman's height and arm-reach in mind. See, too, that you allow



An efficient plan having three adjoining walls; refrigerator (1) and cabinets for staples are near the back door. On the next wall are sink and counters (2) for cleaning and preparing the food for cooking. The third working wall takes the range (3) and serving space.



A kitchen plan for a space where there are only two adjoining walls free for equipment. The sequence of operations is still the same: Store, Prepare, Cook, Serve, Clean Up, Put Away. Breakfast table may be installed on one of the two remaining walls.



plenty of clearance for working comfortably between counter top and cabinet bottom.

Have permanent, long wearing counter tops installed at the time you build your kitchen, with one where cutting with a sharp knife will not leave irreparable scratches. A big window not only lets in plenty of light, but also makes the kitchen cheerful. Here you may grow herbs, as well. Many a family is finding that the cost of a picture window is well justified in the kitchen. Lighting and electrical outlets must be planned thoughtfully to insure efficiency. Plan, too, for ventilating devices that will not only keep the kitchen cooler but will keep odors from straying through the house.

There are three typical successful kitchen plans shown here. Each is step saving, logical in arrangement. No one is better than the others. Choose according to the space you have and your own preference, deciding by imagining yourself getting a meal in any one of the three and so discovering which works best for you.

Before final plans of the kitchen can be made you will have to make your selections of equipment to be sure that they will all fit together along the walls. The manufacturers catalogs deserve your careful study for sizes, styles, and ideas or suggestions for efficient arrangement before you make up your mind.



This kitchen has work areas on the facing walls, but as always, the three main steps of meal getting progress from back door to dining room door. This plan is compact and convenient, but does not allow for a breakfast table or other furniture, such as a work desk.

## ✓ CHECK LIST

Mark ? for further consideration. Mark ✓ if O.K. for plans.

KITCHEN ON THE NORTH ☐ SOUTH ☐  
EAST ☐ WEST ☐ side of the house

DOORS INTO IT FROM the service entrance ☐ garage ☐  
back stairs ☐ basement ☐ dining room ☐  
hall ☐ living room ☐ maid's room ☐  
pantry ☐ laundry ☐

WINDOWS: casement ☐ double hung ☐ fixed ☐  
sliding ☐ glass block ☐

ELECTRICAL LIGHTING OUTLETS FOR:

ceiling fixture ☐ lights under wall cabinets ☐  
over sink ☐ over range ☐  
other work centers.....

..... automatic cupboard lights ☐  
ELECTRICAL OUTLETS FOR range ☐ refrigerator ☐

freezer ☐ toaster ☐ mixers and extractors ☐  
coffee maker ☐ waffle iron ☐ plate warmer ☐  
washing machine ☐ mangle or ironer ☐ iron ☐  
telephone ☐ clock ☐ radio ☐  
entrance call signals ☐ pilot switch to basement ☐  
other equipment.....

KITCHEN UNITS WILL INCLUDE:

sink: double ☐ single ☐  
combined sink and laundry tray ☐ cupboards ☐  
cabinets ☐ drop table ☐ ironing board ☐  
cleaning equipment closet ☐ storage ☐

MECHANICAL AND ELECTRICAL EQUIPMENT

dishwasher ☐ garbage disposer ☐  
range: electric ☐ gas ☐ coal ☐ oil ☐  
water heater: electric ☐ gas ☐ coal ☐ oil ☐  
ventilators ☐ refrigerator: gas ☐ electric ☐  
food freezer ☐ incinerator ☐



# The laundry...

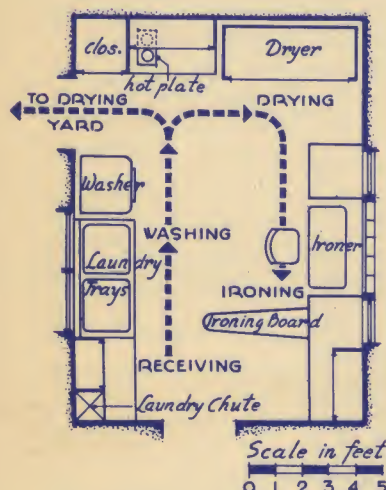
The amount of laundry equipment you can fit into a kitchen may prove inadequate and the collisions between washing and cooking on laundry day would be inconvenient. Also the resale value of your house probably will be greater if you have a separate laundry. So include it in your plans from the first if you can. It can also be the sewing room where clothes are mended before they're ironed.

Today's best laundries have four main pieces of equipment: The washing machine, the clothes dryer, the ironer or mangle and the ironing board. Add to these a hamper into which the soiled linen chute empties, a sorting table or counter, cabinets for supplies, a hot plate for boiling linens and making starch, and you can see that you'll need plenty of room, neatly planned.

Where laundry planning calls for clearest thinking is in its wiring. In the first place, it must obviously be flooded with revealing but not glaring light. What is more, localized lights should make it possible to examine clothes with an eagle eye at all stages. It is almost axiomatic that the laundry walls be light in tone to reflect light well.

Equipment should be arranged in sequence, as kitchen equipment is. First hamper, work table for sorting (and possibly bins for temporary storage), also supply cabinets. Next, laundry trays and washing machine. The dryer and ironer may be on either the adjoining or the opposite wall. Leave room nearby for a clothes basket for the finished products.

The layout plan and perspective indicate proper spacing of equipment to give you enough elbow room. Don't crowd more equipment into an equal space. The plan drawing shows arrows to indicate travel. By this arrangement you may dry clothes indoors with a gas or electric unit, or outdoors, weather permitting.



Where a separate room is provided, the laundry at left would be ideal. The dotted line indicates the course of travel while doing the laundry work.

The combined kitchen-laundry-sewing room at right shows a possible multi-purpose arrangement. The laundry end could be closed off with a gate and used as a play area.



## ✓ CHECK LIST

THE LAUNDRY WILL BE LOCATED ON the first floor ☐ basement ☐

It will serve a dual purpose as sewing room ☐ children's play room ☐ game room ☐

WINDOWS: casement ☐ double hung ☐ fixed ☐ sliding ☐ glass block ☐

LIGHTING: ceiling fixture ☐ strip lighting ☐ wall brackets ☐

ELECTRICAL OUTLETS FOR: electric clock ☐ floor and table lamps ☐ hot plate ☐ iron ☐ ironer ☐ dryer ☐  
food freezer ☐ ventilator ☐

EQUIPMENT WILL INCLUDE: sink ☐ laundry tubs ☐ ironer ☐ washing machine ☐ dryer ☐ gas ☐ electric ☐  
hot plate ☐ gas ☐ electric ☐ ventilator ☐

BUILT-IN UNITS WILL INCLUDE: cabinets ☐ supply shelves ☐ drying racks ☐ clothes chute ☐

hamper for storing and sorting clothes ☐ ironing board ☐ work tops for sorting and sprinkling ☐



# Closets . . .

Closet strategy has become as scientifically perfect as kitchen strategy, and wonderful equipment is available to heighten its effectiveness: racks, bars, sliding trays, etc. Still the gear of any one family is complicated and bulky, so do a lot of figuring before you write O. K. on your closet plans.

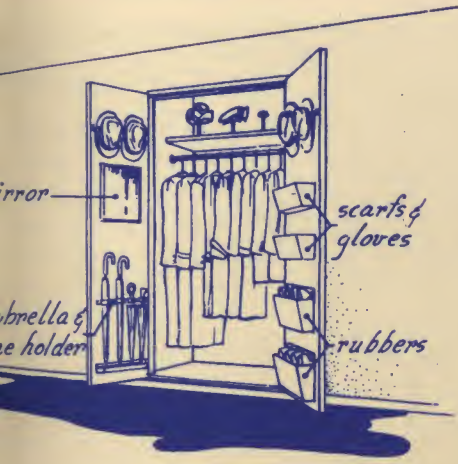
The standard depth for a closet is 2 feet. Three feet of width is a minimum allowance for one person's clothes. It is scanty, when you take into account summer moth bags, winter furs and the undesirability of sandwiching well-pressed woolens in too close. In any case, add 25 per cent to any space allowance you think right, as a margin of safety. You'll be glad for it.

To get the most from every inch of storage space, have your closet doors the full width of the closet. If they slide,

they won't eat up space in your rooms. Light the interior so that floor and shelves and hanging sections are bright. Paint or paper in a light color. Be sure walls are well finished, floors meticulously laid. Moths thrive in cracks. Full-length mirrors may be installed to advantage on the inside of hinged closet doors, since being able to move a mirror gives greatest visibility.

Pull-out bins or trays add immeasurably to the ease of keeping the linen closet orderly. They are grand, too, for storing off-season hats, sport shoes and the like. Install clothes rods for children's closets low enough so the young can reach them. A well-arranged closet may develop orderly habits in a child. Anyway it's worth trying.

It is not enough to merely supply closet space, the space must be planned to take each and every item you can think of, must be divided and supplied with the necessary rods, shelves, bins, drawers, holders and compartments, etc., fitted to use all the space to its maximum—literally a place for everything, predetermined.



◀ This hall closet uses numerous fixtures to get the maximum storage capacity. Such fixtures always help to keep the closet neat and orderly.

▶ This closet has been shown with one set of doors removed in order to illustrate how the space has been divided. Sliding or hinged doors may be used.



## CHECK LIST

(See also check lists of other rooms)

- SPECIAL STORAGE (where possible, give amount of space required):
- Screens and storm sash and doors stored where?.....
  - Awnings stored in.....
  - Trunks and cases: number.....stored in.....
  - Sewing machine stored in.....
  - Outdoor drying equipment stored in.....
  - Porch and terrace furniture stored in.....
  - Sleds, toboggans, canoes stored in.....
  - Bicycles, velocipedes, scooters stored in.....
  - Baby carriage, perambulator, etc. stored in.....
  - Garden tools stored in.....

- Surplus goods (unused furniture, books, etc.) stored in.....
- Special goods (guns, tents, sails, etc.) stored in.....
- Game equipment: card tables stored in.....
- folding chairs stored in.....
- other bulky units stored in.....
- Toy closets (list large toys requiring special storage space, and where stored).....
- Beverages stored in.....
- Food freezer and storage in.....



# Bedrooms . . .

There's an oft' forgotten element to take into account when you get to figuring out your bedrooms—the element of noise. Are trucks going to pound down your street in the witching hour? Are growing youngsters going to joggle in jive in the living room while you toss upstairs? Then study the room placing, arrangement and materials.

The master bedroom should be as quiet as may be and yet, paradoxically, should command quick entry to the nursery. If your family is growing, your children entertaining friends, you may be glad if you allow enough space so your room can be a bed-sitting room on occasion. This means a good-sized room. Beds are big. Add to their own length and width, space so you can get to both sides of them when you make them up. It saves a deal of trouble. Allow for bedside tables or units big enough for individual lamps, clocks, books and general impedimenta.

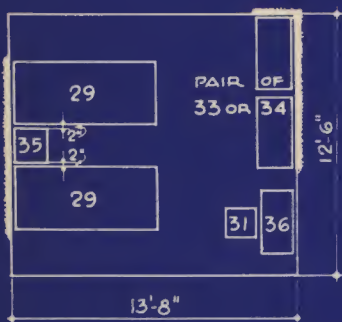
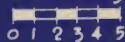
Leave nothing to chance when you plan bedroom wall space. Know to the inch the width of the beds you mean to use and leave ample wall space for them. Don't have windows so close as to keep you in icy drafts all winter long, or windows at the foot which will bathe you in the full blaze of the rising sun. On the other hand, do try to contrive cross ventilation for steaming nights, and general brightness for days you spend in bed getting over grippe.

Traffic lanes should be calculated as accurately in the bedroom as in the dining room. You will want free, unblocked access to your closet. If your dressing table cannot be incorporated in your bathroom, it belongs near your closet.

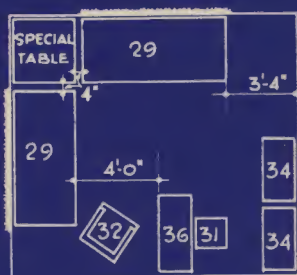
Increasingly parents are planning children's rooms which grow with the children. From a nursery the room becomes a study, then living room of one's own. It is wonderful for your children to be able to have overnight guests, and where room is at a premium, this is feasible with double-decker beds.

In using the check list with your sketch plans, identify each bedroom first by a letter. Then study each room. Finish checking each room before going on to the next.

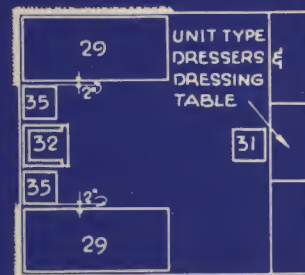
Scale of drawings in feet



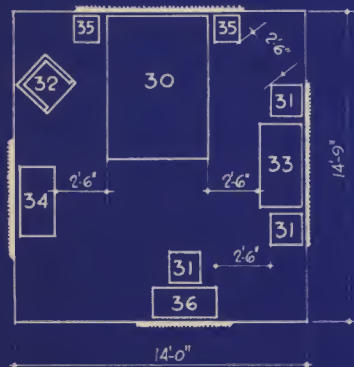
This bedroom has furniture on two walls leaving the other walls free for closets and doors or windows.



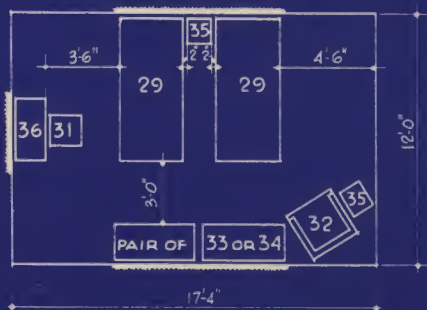
An informal arrangement like this would be suitable for a children's room or study-bedroom.



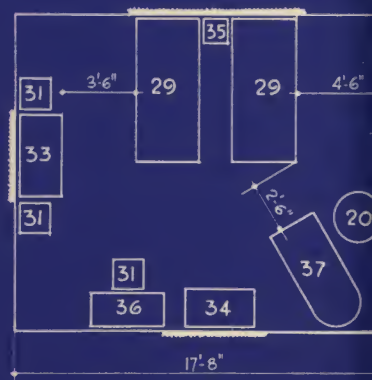
The dressers and dressing table may be beneath windows. Entrance and closet doors opposite each other.



A very nearly square room often permits greater freedom of movement and more convenient arrangement.



With the chair at left of unit cabinets the entire right end of the room could be lined with wardrobe closets.



This bedroom is large enough to permit additional pieces of furniture, including a lounge. Numbers refer to furniture



# Bedroom check list

Mark ? for further consideration. Mark ✓ if O.K. for plans.

## DESIGNATE ON PLAN

TO BE  
OCCUPIED BY

A	.....
B	.....
C	.....
D	.....
E	.....
F	.....

## EXPOSURE:

North	A	B	C	D	E	F
South						
East						
West						

## DOORS FROM:

Hall						
Private bath						
Other bathroom						
Shared bath						
Sleeping porch						

## WINDOWS:

Casement						
Double hung						
Cross ventilation						

## TYPE AND ARRANGEMENT

OF LIGHTING:						
Ceiling light						
Floor lamps						
Table lamps						
Wall brackets						

## ELECTRICAL OUTLETS:

Bed light						
Call bell						
Dresser light						
Electric clock						
Door switch for closets						
Night light						
Outside floor lights						
Radio						
Switch for hall						
Telephone						
Vanity mirror						

## BUILT-IN:

Bed						
Bunk						
Clothes closet						
Double-deck bunks						
Dresser						
Folding bed						
Mirror						
Shoe racks						
Vanity						
Wardrobe						

## FURNITURE PROVISIONS:

	A	B	C	D	E	F
Bed or beds						
Bedside table and lamp						
Bookcase						
Cedar chest						
Chaise longue						
Chest of drawers						
Child's play pen						
Crib						
Day bed or couch						
Desk and chair						
Dresser						
Dressing table						
Easy chair						
Floor lamp						
Radio						
Slipper chair						
Study table						

## Dressing Rooms

### DOOR FROM:

Bedroom						
Bath						
Hall						

### WINDOWS:

Casement						
Double hung						

### LIGHTING:

Ceiling light						
Closet light						
Lamps						
Wall brackets						

### BUILT-IN:

Closets						
Dresser						
Vanity						
Wardrobe						
Mirror						

### DUAL USE AS:

Boudoir						
Sewing room						
Storage room						
Study						

### SPECIAL FURNITURE:

(List)						



# Plumbing and sanitation . . .

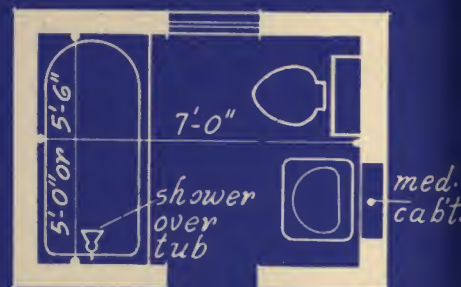
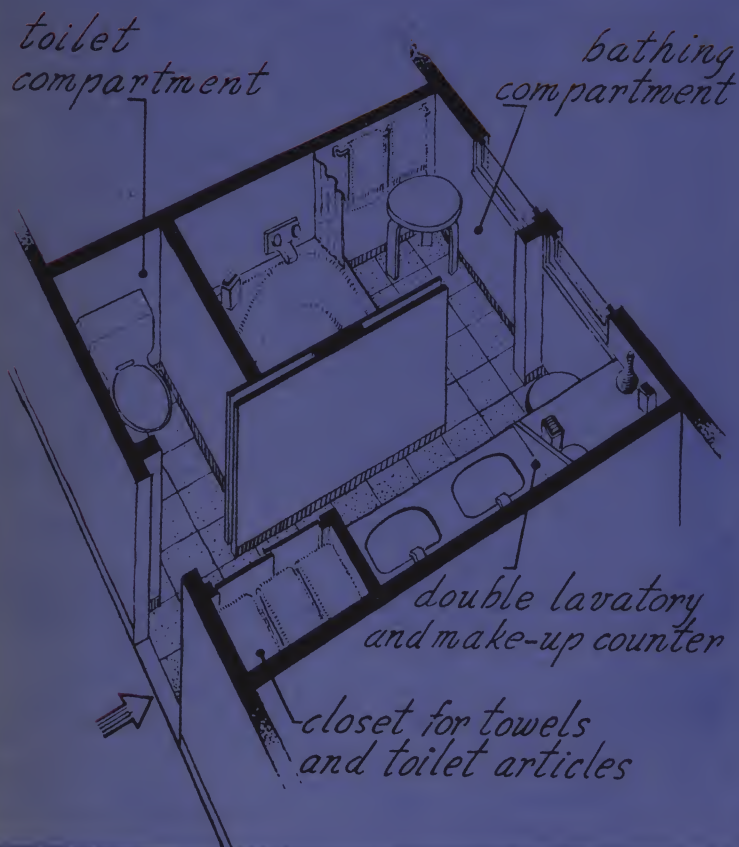
Even for a small family, two bathrooms are mighty convenient and more are better. By placing baths side by side, or directly under one another, they can be made to cost less than if they are far flung, since this way the same piping will supply and drain both sets of fixtures. You can even, by thrifty figuring, get two bathrooms out of one, as the sketch below shows. Only cost is for a partition and one extra fixture, whereas the usefulness of the area is almost doubled.

A big bathroom is a delight, but actually a small one can

be nearly as serviceable. Don't let it get smaller than 7 feet by 5½, and 10 by 5½ is much more comfortable. One justification for enlarging your own bathroom is so that you can install cupboards, shelves and dressing table, reducing crowding in bedroom and closets.

Be sure your bathrom is as nearly waterproof as possible. Even if you don't let the tub splash over, condensation will dampen walls and floor. Special wall and floor surfaces, manufactured for the purpose, are not only efficient, but many of them are truly beautiful. Any upped original cost for installing them will be amortized by the repairs they will save you.

If economy has to be practiced, be sure that it does not affect the selection of your pipes. Here the very best is the only possible quality to select. Local water conditions govern the selection of the kind of pipe that will last longest where you are going to build. A plumber is a very



Where a tub is to be used, this bathroom is the absolute minimum. Note that none of the fixtures has been located under the window.



If a shower is to be used, the minimum width may be four feet six inches. Any bathroom smaller than this will be inadequate.



Many men like showers. The tub-shower combination is always useful. If possible fit in both a separate shower stall and a tub. In the country or suburban house, a downstairs shower stall is grand, gardeners, golfers and small fry will use it avidly and wear and tear on the house will be reduced all along the line. If you must pump your own

Don't forget you will need an adequate water supply outside the house as well as in, so locate "hose-bibs" (at least two) for your garden hose and select water pipes of a proper size. And a faucet in the garage, and a floor drain there too for car washing in winter.

Casement.....  
 Double hung.....  
 Glass block.....  
 Sliding.....

[illegible]



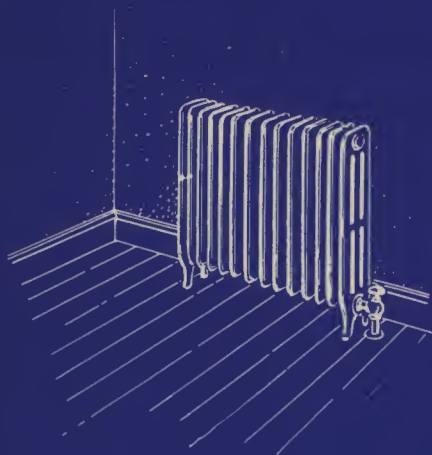
# Heating and air-conditioning . . .

Your heating system should give you the heat you want, efficiently, dependably, economically, and as automatically as possible. It ought to be up to the worst winter weather. Aid and abet it by insulating your house well, and by getting as much supplemental warmth as you can from the sun through double-glazed windows.

The three best-known ways of heating your house are by hot water, steam or warm air. No one is best for every home, but one may be the best for your locality and your type of house. Each one of the three systems mentioned can be either a gravity or forced circulation system. The

latter steps up the efficiency of heating systems. Circulation is forced, where hot water is the heating medium, by a circulating water pump; for warm air it is a fan arrangement, and with steam, vacuum valves do the trick. One of the main reasons why forced circulation is desirable is because it gives results so quickly when automatic controls switch on the heat. Besides this the units in your room, like radiators, convectors and ducts, can be smaller with a forced circulation system. Result, more clear wall space for furniture and a better looking room all around. The drawing below show various ways of heating your rooms.

Heating systems have been improved beyond belief in recent years and one of the greatest steps forward is in the manufacture of heating controls. The most ingenious of these are automatic, will supply you with the temperature you need for as long as you like, will switch on or off at the hour and temperature you select. What this means on



Radiators are one of the commonest means of transferring heat from the boiler to the air of the room. Water or steam flows through the radiator and heat is given off by convection and radiation in the room. It is always well therefore to leave enough space around the radiator to permit air to circulate freely. A heat reflecting surface behind the radiator adds to its efficiency.



Convectors, usually thinner than radiators, may be installed in the wall, leaving only an opening at the top and bottom for the circulation of air.



The grill opening shown above might be the room supply or exhaust for a warm-air system or an air-conditioning system. Grills can also be located in the floor.



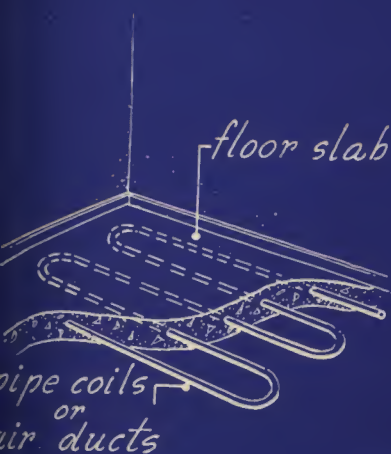
a snowy morning, only an old-time commuter can realize.

Hand in hand with heating goes its obverse, air conditioning. But with a simple forced air heating system, you may be able to achieve partial cooling, for this equipment is capable of circulating cooler basement or night air through your rooms. Individual room air conditioners serve special purposes, such as making one or two rooms comfortable. An attic fan properly installed is a good cooler too. Complete year round air conditioning does more,—technically it takes moisture out of the air, as well as cooling it in summer, puts moisture in and warms it in winter, filters the air the year round. Whatever system you use to achieve heating and cooling, it will work the better for a sound insulation job throughout your house.

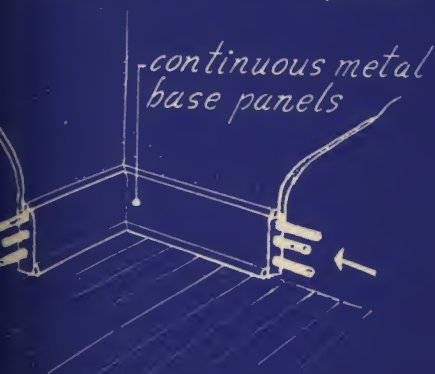
Study the literature of the manufacturers in this catalog to get an insight into modern equipment and how it works. Find out about the availability of fuel and service in your

neighborhood. Then go ahead with the best quality units which you can afford, and insure their efficiency by providing insulation, weather stripping and double window glazing.

Heating and air conditioning are highly technical subjects and the layout of the system should be left in the hands of a reliable expert who is familiar with all the engineering data, one who has had experience in the field and can properly design the kind of system best suited to your particular plan and type of house. Tell him what you want, he'll do the rest.



heating uses pipe coils or airducts running through the ceiling, floor, or wall in order to provide radiant heat in the rooms. Any of the three heating mediums, air, steam or water may be used.



new radiant heating unit appears to be a continuous metal baseboard, and isn't much larger, but its coils act as a radiator. Steam or hot water

## ✓ CHECK LIST

THE HEATING PLANT will be located in the  
basement ☐ on the ground floor ☐

IT WILL BE hot water ☐ steam ☐  
jet warm air ☐ vapor ☐ warm air ☐

panel heating ☐ gravity ☐ forced circulation ☐

FUEL: coal ☐ anthracite ☐ bituminous ☐  
gas ☐ oil ☐ electricity ☐

IF SOLID FUEL

provide automatic firing equipment ☐

PROVISION FOR

automatic control equipment ☐

ELECTRICAL OUTLETS for all equipment ☐

COMPLETE AIR CONDITIONING is desired ☐

it will operate on gas ☐

electricity ☐ oil ☐

air filtering ☐ cooling ☐

humidifier ☐ dehumidifier ☐

FUEL STORAGE: coal ☐ gas ☐ oil ☐ wood ☐

AN ATTIC FAN will be installed ☐

UNIT COOLERS for .....rooms in summer

SPECIAL NOTES.....  
.....



# Electricity and lighting . . .

The number and placement of electrical outlets is of the greatest importance. You will want a number of lamps and you will not want to live in a tangle of long electrical cords. Better to have too many convenience outlets than too few, you may want to change your furniture arrangements someday. If you are in doubt as to how you will arrange your furniture, put enough outlets on *all* walls so you can make shifts without sliding out of range of outlets, sources of light.

Lighting itself has become an exact science in recent years, the emphasis not on increasing light intensity willy-nilly, but on achieving just the right amount and kind for each and every task or purpose. The elimination of trying glare has been studied as intensively as the amount of light sufficient to make the finest work no strain on your eyes.

Causes of eye strain (which in turn leads to fatigue and all sorts of physical disorders) seem to be: insufficient light, glare, unduly sharp brightness contrasts. A spottily lighted room may be exciting to look at, but definitely dangerous for the eyes. Bright, individual lights should be no more than ten times as bright as the general, over-all room light. In other words, don't settle down under one reading lamp, at night, with the rest of the room in darkness. Supplement your local lighting with general illumination.

Used in combination or separately, there are three kinds of lighting to be considered:

*Direct.* This is concentrated illumination for reading, writing or delicate work, directed where you want it, usually from your shaded lamps. See that it supplies ample intensity for the job in hand without glare.

*Indirect,* as the name implies, involves light thrown onto a large area, generally the ceiling, and reflected back from

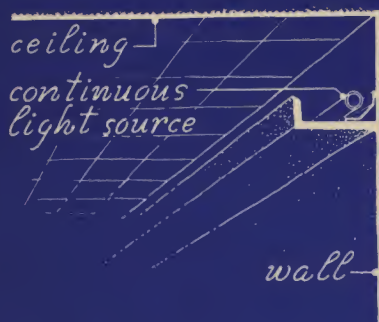
it, to spread diffused light throughout. It is provided by special fixtures, coves or reflectors.

*Semi-Indirect.* Light is directed both upward and down, so that some is direct, some reflected.

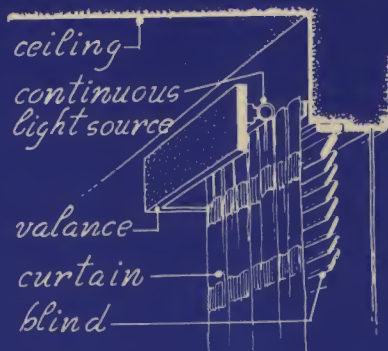
In addition to any scientific knowledge which you can bring to bear in planning the lighting of your home, the main tool which you have is good common sense. It will tell you to see that stairs are well lighted, that hall lights are controlled by switches both upstairs and down, that you get soft general lighting in your dining room, that good direct lights are close to the chair where you will read or sew, that local lights illumine each kitchen task, and so on. And don't forget lights outside, either.

And while you are thinking of where each lighting fixture or outlet should be in relation to each activity and piece of furniture in each room, be sure the wiring is adequate, yes generous, for both lighting and appliances and for power. Now is the time to provide at least cost the wiring outlets for all the labor-saving and convenience items that you will need and want—washer, ironer, radios, television, refrigerator, freezing unit, range, fans, motors, room heaters, and power for your oil burner or stoker and all the rest. This means plenty of outlets, properly arranged circuits and wire sizes large enough to carry the present and future loads.

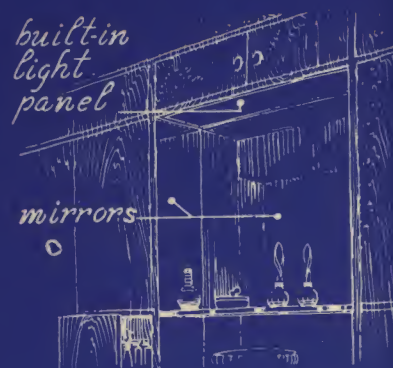
Switches should be located so you can reach them naturally as you enter or leave a room or space, lighting your way before you. A pilot light at the cellar switch will show you whether the light is on or off down there. And have one for the attic too. Be sure your circuit-breaker or fuse-box is in a handy location for you will want to be able to get at it in the dark if something goes wrong.



1. Continuous uniform lighting for any room may be secured by using fluorescent incandescent or cold cathode tubular lamps hidden in a cove or molding.



2. Tubular lights behind a valance may be used to accent windows or objects. It is also an interesting way of providing general illumination.



3. Built-in light panels around mirrors are always helpful. Such a unit as shown above might be installed in a bed room between two closets—over a vanity.



# Lawn and landscaping . . .

Like every other facility that goes to make up your new home, the lawn surrounding it should be planned now for its full enjoyment when it becomes a reality.

Without a lawn even the best landscaping is meaningless. Actually, the grass is an integral part of the landscaping, without which your home will look as naked as an unfurnished room.

Perhaps the best way to lay plans for a dream lawn is to list certain considerations. This list, while not conclusive, will start you on the right track to a fine lawn with a minimum of lost motion and costly mistakes:

1. Survey property to determine the amount of natural slope and to locate existing drainage facilities.
2. Begin early to reserve topsoil of suitable quantity and quality.
3. Save all topsoil before building excavation starts.
4. Plan the preparation so that the actual seeding can be accomplished during the late summer or early fall season.
5. Sow a quality seed mixture that has done well on other successful lawns in your locality and a mixture that is adapted to the area as far as direct sunshine or shade are concerned.
6. Don't plant a new lawn on subsoil.
7. Don't plant lawn seed without fertilizing the seed bed

It is a truly rare occasion when a good lawn "happens" result from a hasty, improperly executed and poorly planned planting. The outstanding lawns the country over are planned from the beginning. It makes little difference whether the lawn consists of acres of restful vistas or an outdoor carpet serving double for a croquet court in front of the barbecue furnace, planning its start will pay off well through many years of good, attractive service.

From the moment you start considering your plans for a new home, you should be developing your landscaping ideas, too. Before you start construction of your home, there are many landscaping factors that should be considered in light of your lot and its characteristics, neighboring lots, sun and shade patterns, maintenance and family activities. Actually, there are three steps to be taken when it comes to landscaping. First, make your plans reflect the best possible use of the land as far as practicality and beauty are concerned. Second, put your plan to work and shape the land by retaining natural advantages and constructing necessary walls, pathways and driveways. Finally, select the plants that will make your landscaping plans come to life. There are four general areas to think about—street, utility, garden and family areas.

The approach to your house—the so-called street area—the area the public sees first. When deciding upon plantings for this area, consider their attractiveness and the visibility they permit.

You'll want plenty of outdoor living space if you're like most modern home-planners! This is the private area which could very well include a porch or terrace and a play-yard. It is plenty of space for outdoor living and sun-bathing!

A garden area is a must for garden enthusiasts. No matter whether it's a flower or vegetable garden for you, chances are your garden will be a sun-worshiper—place your garden accordingly. And place your garden where the most people will enjoy it most of the time.

Your service area should be close to the driveway and walks. Among the items you will want to consider for this part of your land are clothes drying and waste collecting facilities.

There are so many trees, bushes, vines and perennials from which to choose! Better make certain you round up all the professional advice you can before you start planting.

Briefly stated, there are certain fundamentals to follow in making a selection of plants:

- (a) Consider the outline of the plant—its size and shape and how fast it grows.
- (b) Consider the sun and the shade in the selected location.
- (c) Consider the plant's color and its flowers and fruit.
- (d) Consider the hardiness and permanence of the plant.
- (e) And consider the soil and moisture requirements.





# Product selector . . .

The list on this and the following pages will enable you to make a permanent record of your selections of all the various items you will want in your house, designated by the specific producer's name and brand. In the column headed "kind or material" write in the type, or material of which any item is made. The trade name goes next, and the manufacturer's or firm's name in the last column, using the information you have found in your thorough study of the manufacturers' catalogs section of this volume. Make plenty of notes as you go through.

In the first section of this material and equipment list the rooms have been taken up individually room by room. Several blank lines have been left under each major item; i.e., walls, ceilings, floors, etc. The "reminder" (below) is arranged alphabetically, suggests types, kinds, materials and finishes which may be written in these blanks. You fill in the brand name and manufacturer's name. The example below shows how the first line of the check list might have been written.

	KIND OR MATERIAL	BRAND	MANUFACTURER OR FIRM
<b>LIVING ROOM</b>			
WALLS AND CEILINGS	Metal lath	Plast-isee	Lathmaster, Inc.
	Paint	Stay-flow	Cambria Paint Co.
	Linoleum	Slidlook	Resifloor and Huc, Inc.
FLOOR	Carpet	Petal-paddy	Warp & Woof

(Go over this list when considering each room as it will suggest materials, types, etc.)

## WALLS:

Fabric  
Glass  
Linoleum  
Metal  
Paint  
Plaster  
Plaster base  
Plywood  
Tile  
Wallboard  
Wallpaper  
Wood paneling

## FLOOR:

Asphalt tile  
Carpet  
Concrete

## Cork

Linoleum  
Paint, Varnish,  
etc.  
Rubber  
Rug anchors and  
pads  
Rugs  
Stone  
Tile  
Wood

## WINDOWS:

Casement  
Curtain hardware  
Drapery hardware  
Double glazed  
Double hung

## Fixed

Glass block  
Rolling screens  
Screens  
Sliding  
Storm sash  
Venetian blinds  
Weather stripping  
Window shades

## LIGHTING FIXTURES:

Ceiling  
Cove or recessed  
Fluorescent  
Strip  
Spot light  
Ultra-violet  
Wall bracket

## HARDWARE:

Cabinet  
Door  
Window  
Other

## BUILT-IN UNITS:

Bookcases  
Cabinets  
Closet equipment  
Cupboards  
Dampers  
Dresser  
Fireplace mantel  
Fireplace circulating  
unit  
Heat controls  
Radiator covers

## Unit heaters

Unit cooler  
Vanity  
Ventilator  
Window seats

## DOORS:

Dutch  
Flush  
French  
Panelled

## COMMUNICATION:

Alarm systems  
Call bells  
Chimes  
Intercommunicating  
Radio  
Telephone  
Television

## LIVING ROOM

	Kind or Material	Brand	Manufacturer or Firm
Walls and Ceilings			
Floor			
Doors			
Windows			
Hardware			
Lighting Fixtures			
Built-in Units			
Communication			
Furniture			
<b>DINING ROOM</b>			
Walls and Ceilings			



# Home Owners' product selector

## DINING ROOM (Cont'd)

	<i>Kind or Material</i>	<i>Brand</i>	<i>Manufacturer or Firm</i>
Floor			
Doors			
Windows			
Hardware			
Lighting Fixtures			
Built-in Units			
Communication			
Furniture			

## KITCHEN

Walls and Ceilings			
Floor			
Doors			
Windows			
Hardware			
Lighting Fixtures			
Built-in Units—Accessories and Equipment			
Cabinets			
Counter Tops			
Dishwasher			
Drainboards			
Food Freezer			
Garbage Disposer			
Incinerator			
Range			
Refrigerator			
Sinks			
Ventilator			
Other Appliances			
Communication			

## LAUNDRY

Walls and Ceilings			
Floor			
Doors			
Windows			
Hardware			
Lighting Fixtures			
Built-in Units—Accessories and Equipment			
Cabinets			
Dryer			
Hot Plate			
Ironer			
Mangle			
Sinks			
Tubs			
Ventilator			
Washing Machine			
Other Appliances			



# Home Owners' product selector

## BEDROOMS (Name) \_\_\_\_\_

(Repeat on separate sheet for each bedroom if necessary)

	Kind or Material	Brand	Manufacturer or Firm
Walls and Ceilings			
Floor			
Doors			
Windows			
Hardware			
Lighting Fixtures			
Built-in Units			
Communication			
Furniture			

## BATHROOM (Repeat on separate sheet for each bath or lavatory if necessary)

Walls and Ceilings

Floor

Doors

Windows

Hardware

Lighting Fixtures

### Built-in Units—Accessories and Equipment

Brush and glass holder

Dental Lavatory

Hair Dryer

Hamper

Lavatories

Medicine Cabinets

Mirrors

Shower Cabinet

Shower Controls

Soap Dish

Toilet Paper Fixture

Towel Racks

Tub Hanger

Tub

Unit Heater

Ventilator

Water Closet

Note: Make similar lists for each room including game room, basement, study, sun room, garage, dark room, hobby room, utility room, etc.

## MECHANICAL EQUIPMENT

### Heating and Air Conditioning

Air Conditioning

Air Filters

Attic Fan

Automatic Controls

Boiler

Circulating System

Convectors

Cooling Equipment

Dehumidifier

Fireplace Heater

Furnace

Gas Burner

Hot Water Heater

Humidifier

Oil Burner



## MECHANICAL EQUIPMENT—Heating and Air Conditioning (Cont'd)

	Kind or Material	Brand	Manufacturer or Firm
Radiators			
Radiator Enclosures			
Space Heater			
Stoker			
Valves			
Ventilating Fans			
Warm Air Grills and Registers			
<b>Electricity and Lighting</b>			
Alarm Systems			
Circuit Breakers			
Door Chimes			
Floodlighting			
Fuse Boxes			
Lightning Rods			
Radio and Television			
Wiring System			
<b>Plumbing and Sanitation</b>			
Cold Water Pipe			
Copper Tubing			
Floor Drains			
Grease Traps			
Hot Water Pipe			
Hot Water Tank			
Lawn Sprinkling System			
Mixing Valves			
Pumps			
Septic System			
Soil Pipe			
Sump Pump			
Traps			
Valves			
Vent Pipe			
Water Conditioners			
Water Supply System			
<b>STRUCTURAL AND OTHER ITEMS</b>			
Acoustic Treatment			
Awnings			
Brick			
Brick Veneer			
Building Paper			
Cement			
Closet Fixtures			
Concrete Block			
Curtain and Drapery Hardware			
Doors			
Cellar Bulkhead			
Exterior			
Dumbwaiter			
Fence			
Financing			
Fireplace Equipment			
Circulating Unit			
Dampers			
Log Hoist			
Mantel			
Flashing			
Garage Doors			
Automatic Control			
Hardware			



# Home Owners' product selector

## STRUCTURAL AND OTHER ITEMS (Cont'd)

	Kind or Material	Brand	Manufacturer or Firm
Garbage Receiver			
Glass			
Double Glazing			
Glass Blocks			
Mirrors			
Plate			
Structural			
Window			
Greenhouse			
Gutters and Leaders			
Hardware			
Incinerator			
Insulation			
Ceiling			
Floor			
Pipe and Duct			
Roof			
Wall			
Insurance			
Casualty			
Fire			
Life			
Landscaping			
Fertilizer			
Lawn Seed			
Nursery			
Tree Surgery			
Lift			
Lumber			
Mill and Cabinet Work			
Mortgages			
Ornamental Iron Work			
Paint Products			
Exterior			
Interior			
Special Uses			
Plaster			
Plaster Base			
Plywood			
Roofing			
Screens			
Shingles			
Sound Insulation			
Stairs			
Attic			
Stone			
Structural Steel			
Stucco			
Venetian Blinds			
Wallboard			
Wallpaper			
Walls			
Exterior			
Structural			
Waterproofing			
Weatherstripping			
Windows			
Window Shades			
Workshop Equipment			

See "Room Check Lists" for additional products.  
Make similar lists for furniture, portable appliances and other items.



# You Will Save Up to 2 Hours Work Every Day With An Efficiency-Planned American Kitchen



## A WORD TO THE WISE—

Remember, when planning your new kitchen, that there's no substitute for *steel*. Steel kitchen cabinets are far superior to wood. Mice, rats and other vermin can't attack them . . . they won't warp, swell or rot . . . and they're easier to clean, easier to install and never need painting. Yet—despite these advantages—a styled-in-steel American Kitchen costs *less* than quality wood cabinets!



# *American* Kitchens are Designed to Save You More Time, More Work, More Steps Than Any Other Kitchen You Can Choose!

*AND IT'S SO EASY TO INCLUDE YOUR NEW AMERICAN KITCHEN AS PART OF YOUR REGULAR HOME FINANCING!*



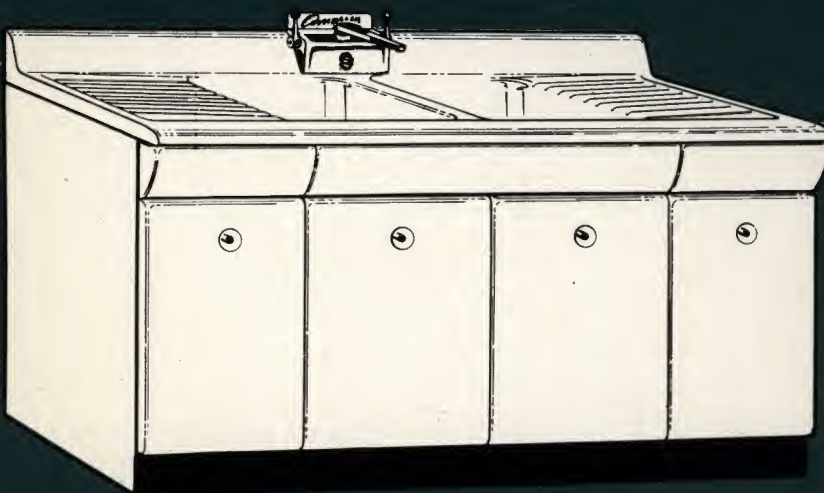
Never before has a kitchen been designed to bring you so many work-saving advantages as you will find in today's great American Kitchens!

Actual case studies show that—thanks to American Kitchens advanced design and extra conveniences—this amazing "Kitch-

en of Tomorrow" can actually cut your kitchen work as much as one half . . . save you up to 1000 needless steps every day.

Visit your dealer's and see for yourself why so many millions of women prefer American Kitchens to all others . . . why an American Kitchen is your best buy, too!

***See How Easy It Is To Combine Beautiful American Kitchens Units To Create The "Custom-Built" Kitchen of Your Dreams!***



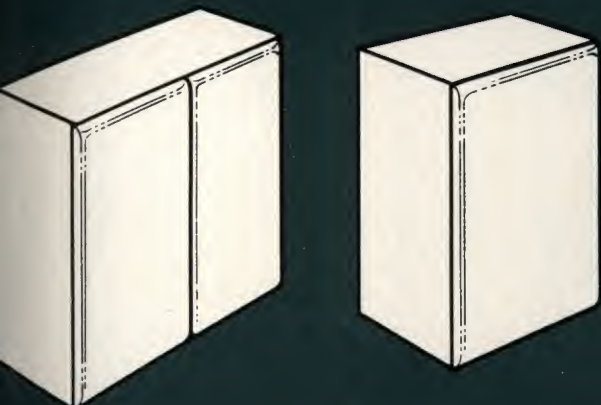
All American Kitchens units are coordinated-designed to combine to form what appears to be a single built-in unit. There are seven sink styles from which to choose, priced from as little as \$79.95. Sizes range from 42" to 66" in width. All are of the finest quality, with heavy porcelain-enamel tops and auto-type baked enamel steel cabinets.





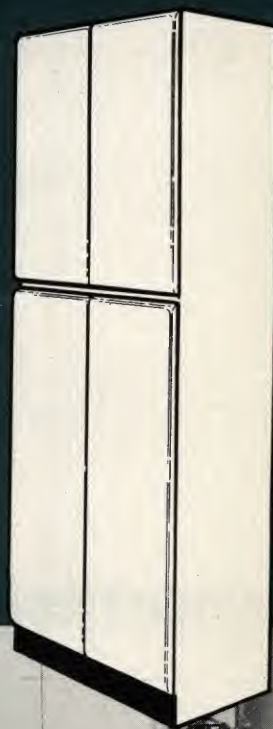
## BASE CABINETS

No matter what size or shape your new kitchen may be, American Kitchens sinks and cabinets will fit it perfectly. For maximum working surface and storage, fill in all usable lower wall space not required for sink, range or refrigerator with handsome American Kitchens base cabinets. Base cabinets are topped with rugged, durable, easy-to-clean surface material. Priced from \$49.95.



## WALL CABINETS UTILITY CABINETS

Now, add wall cabinets over your base cabinets and range—and a big utility cabinet for storing linens, mops, broom, aprons, etc., and you'll have a dream kitchen as beautiful and efficient as the one pictured below . . . all yours as part of your regular monthly home payment! (Wall cabinets start at \$19.95, the 84" high utility cabinet is \$59.95.)



**CABINET DIMENSIONS AND MODEL NUMBERS**

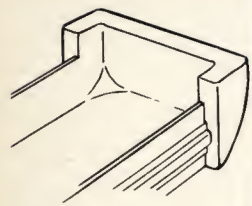
DESCRIPTION	HEIGHT	DEPTH	WIDTHS							
			15"	18"	21"	24"	27"	30"	36"	
Wall Cabinets . . . . .	18"	13 1/4"		LW 1818	LW 2118	LW 2418		LW 3018	LW 3618	
Wall Cabinets . . . . .	30"	13 1/4"	LW 1530	LW 1830	LW 2130	LW 2430		LW 3030		
84" high, 4-door Utility Cabinet . . . . .	84"	13 1/4"			LU 2184					
30" high, 2-door Corner Wall Cabinet . . . . .	30"	13 1/4"			LCW2730—27" along each wall from corner					
Base Cabinets . . . . .	36"	25"	LB 15	LB 18	LB 21	LB 24		LB 30		



# No Other Kitchen Brings You All These Wonderful

## *American* Time-Savers, Step-Savers, Work-Savers!

**KITCHENS**



Drawers rounded inside... no corners or cracks to catch dirt!... As easy to clean as bowls are!



Revolutionary new-type garbage disposer... liquefies even hard bones in a few seconds!



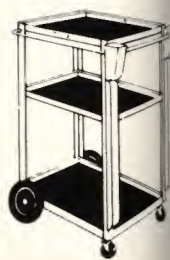
Concealed door pulls eliminate protruding handles—makes cleaning far faster, far easier!



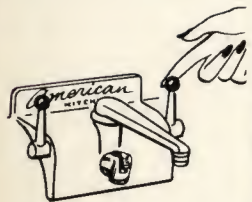
New, quiet, automatic ventilator instantly whisks cooking odors and greasy fumes outdoors!



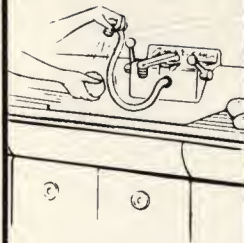
Extended counter tops give you extra knee room for comfortable, relaxed, natural stance.



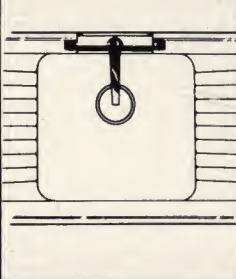
Smart new Serv-Cart—alternates as movable work center. Rolls under counter when not in use.



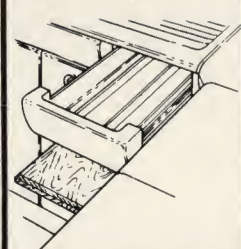
Non-splash, lever-type faucet—on or off with flick of finger, even with hands full! Swing spout.



Built-in push-button spray. One-hand operation—turns on with slight pressure of thumb.



No dirt-catching back ledge on sinks—makes for easier cleaning, extra-large sink bowls.



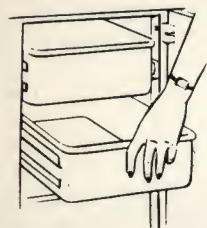
Divided cutlery drawer right at your elbow—with handy removable cutting board below!



Concealed drawer pulls eliminate dirt-trap handles... drawers open at touch of your finger!



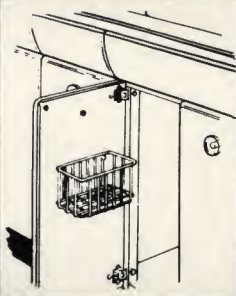
Rounded, 1-piece top and back splash—no more hard-to-clean cracks, corners, crevices!



Concealed extra drawers in under-sink cabinet give extra drawer storage where needed most!



Wall and Base What-Not Shelves—handy storage for cookbooks, radio, appliances, etc.



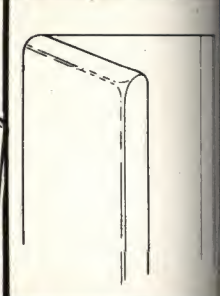
Hidden soap basket and towel rods keep dish-washing needs always within convenient reach!



Roomy utility cabinet for brooms, mops, aprons, etc.—with two big linen shelves in upper section!



Concealed bread box, cup, condiment and extract racks make the most of every inch of space!



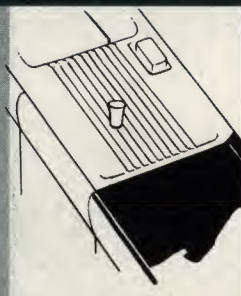
All corners and edges rounded—prevents torn clothing and scratches—makes cleaning easier.

*American*  
**KITCHENS**  
STYLED IN STEEL

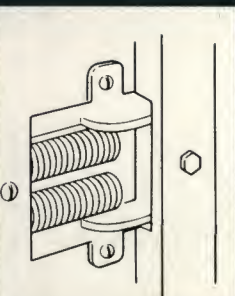
AMERICAN CENTRAL DIVISION



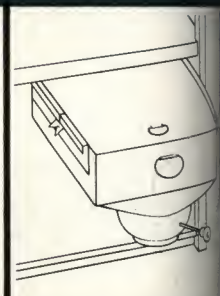
CONNERSVILLE, INDIANA



Barrier prevents soap slipping into bowl—even small glasses won't tip on new-type flutes!



Double-action hinges hold doors fully open or closed without catches... Doors can't stand ajar!

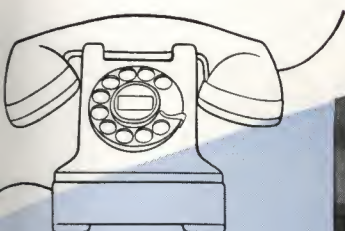


Built-in sifting flour bin—fits right into wall cabinet—slides in or out at slight touch of finger.

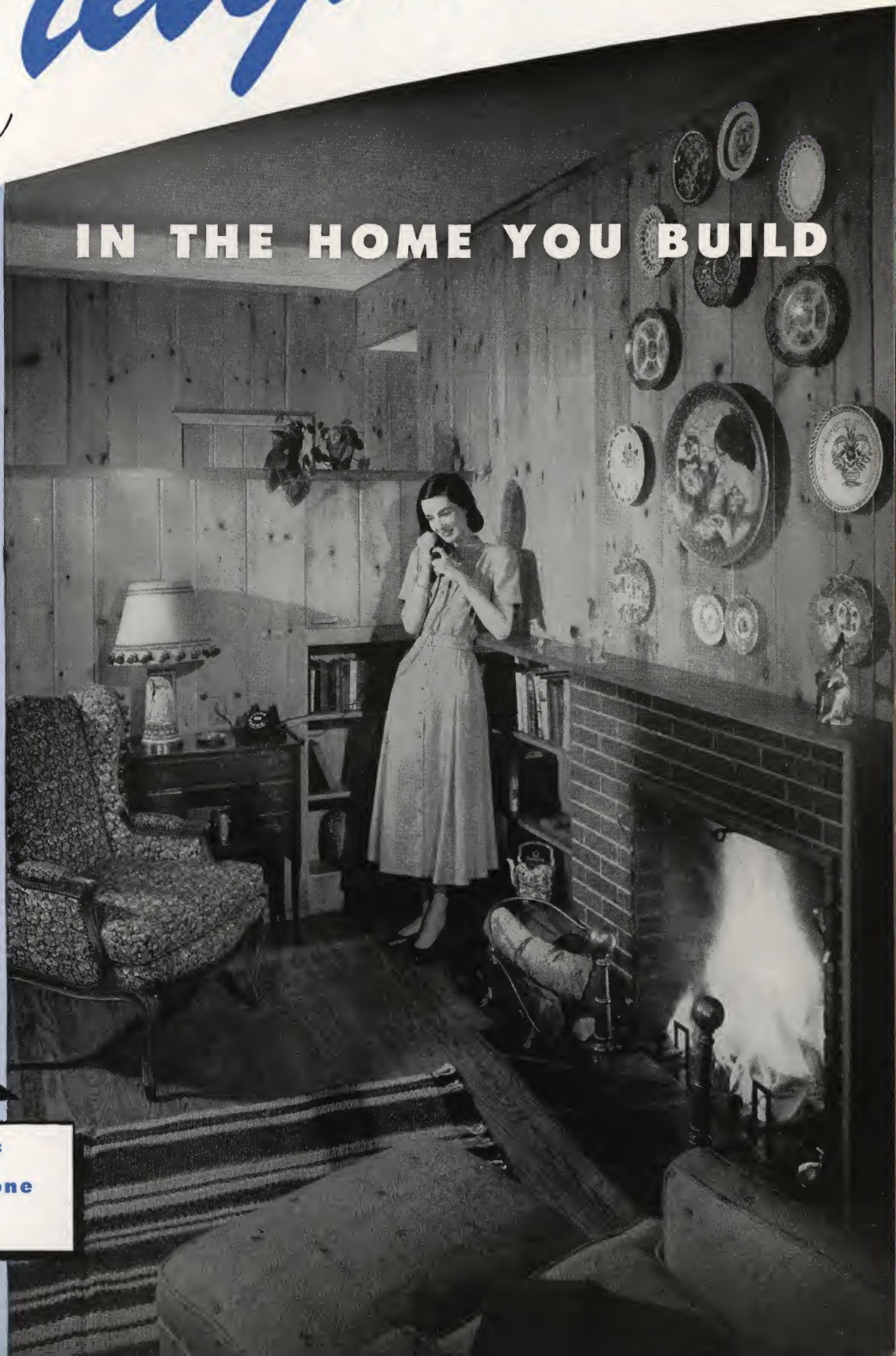


**PLAN FOR**

# *telephones*



**IN THE HOME YOU BUILD**



**The sign of  
good telephone  
planning**





## **Where will your telephone wires go?**

Naturally you want your new home modern in every respect—designed for comfort, convenience and attractiveness. For that reason you've probably given considerable thought to such essential services as electricity, gas and plumbing. Not only must such services be ample for every demand, but the pipes and wires associated with them must be concealed within the walls. *Now consider your telephone wires. They, too, should be hidden from view.*

## **Plan now to conceal them forever**

Right now while you are planning your home is the time to think about the telephone service you'll need, now and in the future. Once you decide where you will want telephones, your builder or electrician can install the necessary outlets and provide raceways to carry the telephone wires inside the walls of your house. This eliminates the need of ever running wires exposed to view on your walls, baseboards and other woodwork.

## **What are telephone raceways?**

Almost any type of conduit will serve to carry your telephone wires *inside* the walls of your house. Ordinary black pipe or thin-wall or flexible electrical conduit are most frequently used. They provide a clear path in the walls through which the telephone installer can run his wires.



## ***Why telephone planning is so important***

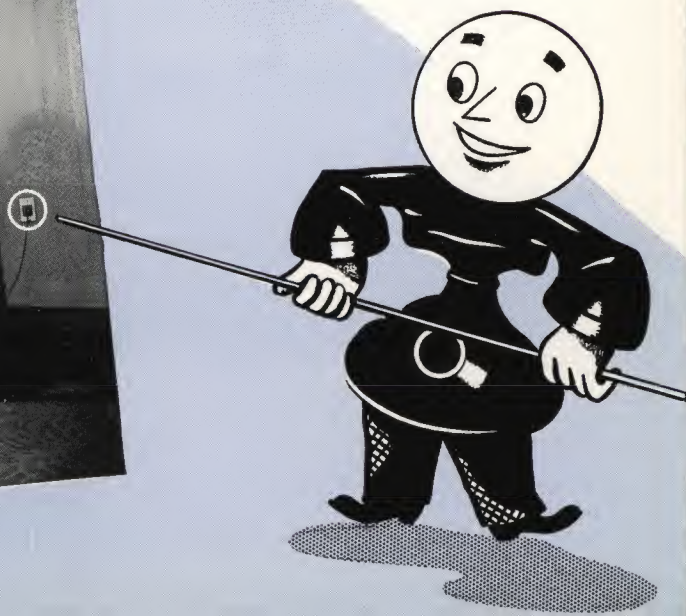
Most homes being built today are so constructed that it is impossible to conceal telephone wires once the building is completed. Modern construction, the use of insulating materials, fire stops and stud bracing block any attempt to run wires within the walls. So unless raceways are provided, the telephone installer frequently has no choice but to attach the wires in plain sight on baseboards and around window and door frames.

## ***How many outlets will you need?***

In deciding how many telephone outlets you should have installed, consider future as well as present needs. As conditions change, as your family grows, your requirements will increase. Perhaps you may not want to have a telephone in your bedroom right now, but later you probably will find one a great convenience. The same applies to other desirable locations. So to insure complete telephone convenience, provide ample outlets now. The cost per outlet is nominal, and some day you'll be happy for today's foresight.

## ***Suggested outlet locations***

Your telephone requirements will, of course, vary according to family circumstances and the layout of the home you build. However, experience has shown desirable locations to include (1) a central location accessible to the working area of your home—the kitchen, dining room, living room or hall if not too far from the kitchen door; (2) master bedroom either on first or second floor; (3) additional bedrooms, den, study, sewing or game room or workshop.





## Outlets for portable telephones

In many homes one or more portable telephones—telephones that can be carried from room to room and plugged into telephone outlets—are found to be worthwhile time and step savers. You may not use such locations as the sewing room, guest room, workshop, or sunporch often enough to warrant installing a permanent telephone, but outlets for a portable telephone, available whenever needed, would prove a real convenience.

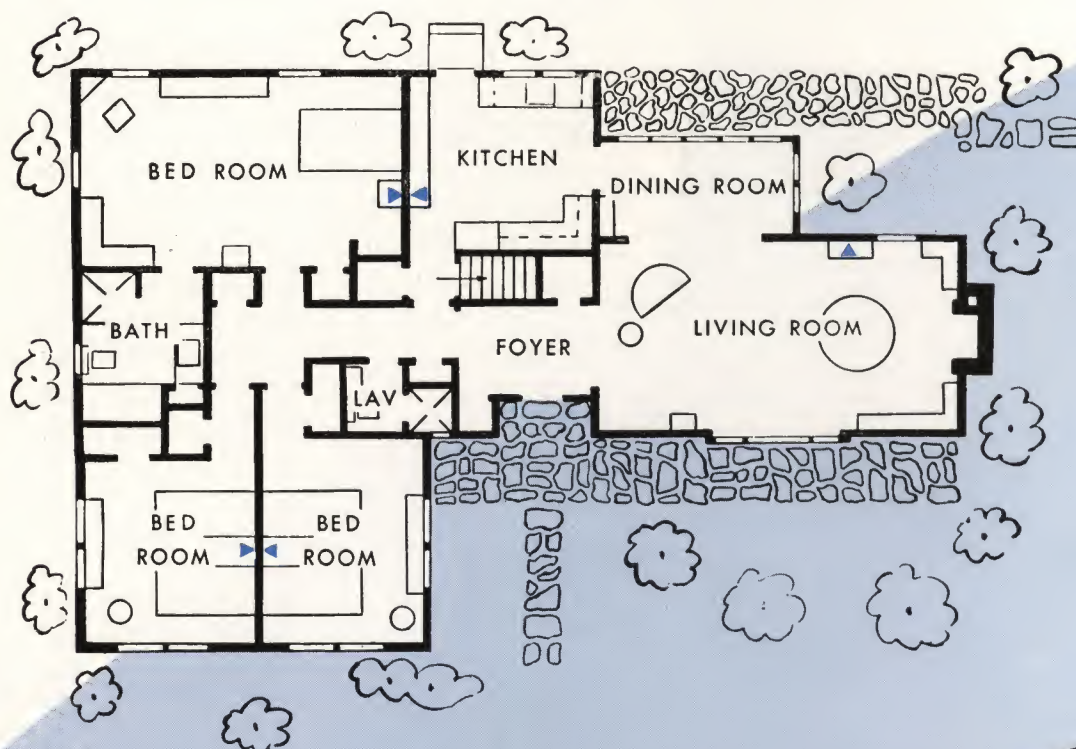
### Remember these points

Plan *now* for telephone service in the home you build—*insure concealed wiring*.

Plan more outlets than you will need initially, for conditions and family requirements are likely to change with the years.

Locate telephone outlets where they will be most easily accessible day and night, at work and at leisure.

Consider, too, the use of portable telephones if you have rooms which will not be in continuous use, but where you will want a telephone when they are occupied.



The telephone company furnishes a telephone planning service without charge to all architects, contractors and home builders. Due to the wide variety in design and construction of present-day homes, new problems in planning for telephone service frequently arise. Telephone specialists can best help solve those problems. Just call your Bell Telephone Company Business Office and ask for Architects and Builders Service.



**BELL TELEPHONE SYSTEM**





*Build a Better Home*

WITH PRODUCTS OF THE HOUSE OF

**Carey**



*&* HERE'S THE ROOF THAT GIVES YOU MORE  
THAN ROOFING EVER DID BEFORE



# *Carey* FIRE-CHEX

asbestos-plastic shingles

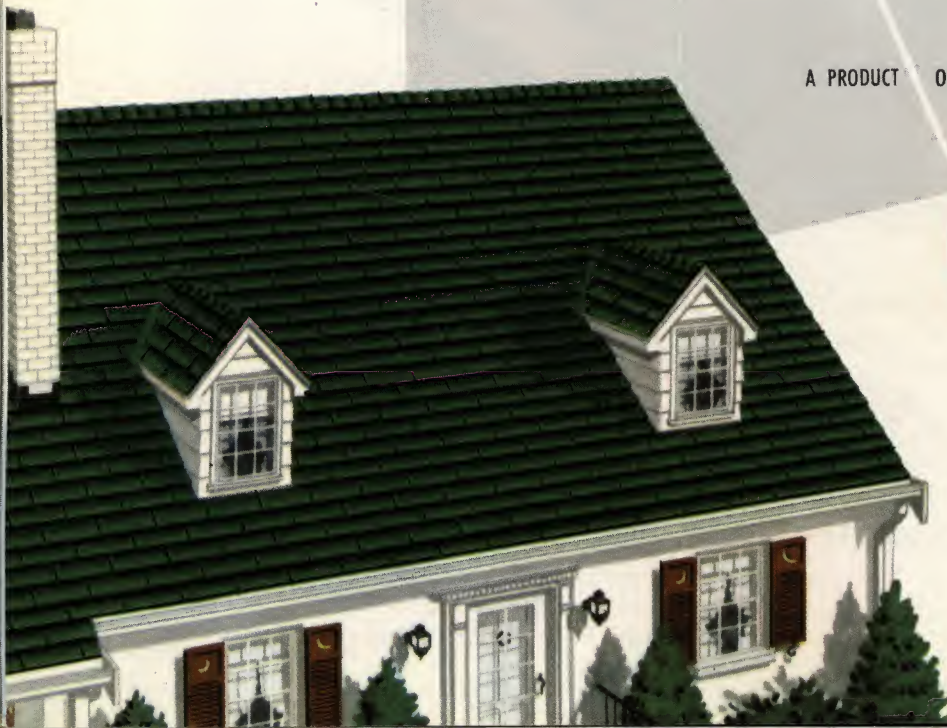
*featuring*

- Breath-taking New Beauty
- Up to 108 Times Greater Fire-safety
- Super-rugged Construction to Defy  
Weather and Time

A PRODUCT OF THE HOUSE OF

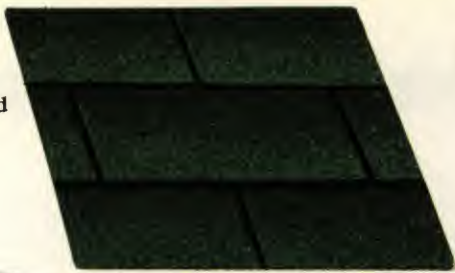
*Carey*

THE PHILIP CAREY MFG. COMPANY  
CINCINNATI 15, OHIO

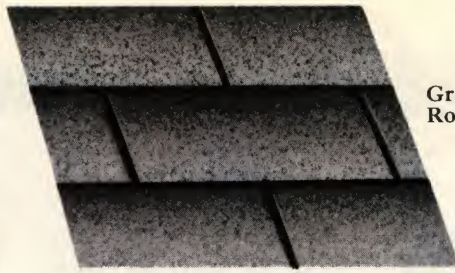




Green Shadow-Blend  
Roof Design\*\*



Gray Shadow-Blend  
Roof Design\*\*



## Why a *Carey* **FIRE-CHEX** Roof Will give your Home a Glorious Future

**Breathtakingly Beautiful!** Carey Fire-Chex shingles will give your home the most beautiful roof under the skies! They're the world's only shingles especially designed for application in gorgeous shadow-blend roof designs, distinctively beautiful and copyrighted as "works of art." Your moderately-priced Fire-Chex roof will have the pleasing, architecturally-correct shadow-lines and rich, massive "character" formerly obtainable only with far costlier materials. Choose your Fire-Chex roof from a rainbow of striking new colors and blends.

**Up to 108 Times Greater Fire-safety!** It's a fact! Tested by Underwriters' Laboratories, Inc., Fire-Chex were found up to 108 times more resistant to fire than conventional shingles. Fire-Chex have a new, patented asbestos-plastic coating with highest fire-resistance to guard your home, your loved ones, from ever-present dangers of sparks, embers and flaming brands. Fire-Chex are the only shingles of any kind to win Underwriters' highest fire-protective rating—Class A\*. Be sure Fire-Chex protection goes on the roof of your new home!

**Super-Rugged Time-and-Weather Defying Construction!** Scientific tests in regions of greatest weather severity prove that Carey Fire-Chex shingles far outlast conventional shingles; resist blistering, curling, warping, wind and hail storm damage. And no wonder! Fire-Chex are made extra-thick, weigh 325 lbs. per square (100 square feet of roof area). Especially rugged to withstand weather's most vicious abuse. This assurance of longer life actually means lower roof costs per year, greater satisfaction, more years of trouble-free service than offered by any other roofing material.

**Ask YOUR ARCHITECT, BUILDER, OR CAREY DEALER TO SHOW  
YOU THE EXCLUSIVE ADVANTAGES OF CAREY FIRE-CHEX SHINGLES BEFORE YOU BUY  
ANY ROOFING!**



Blue Shadow-Blend  
Roof Design\*\*



\*Class A—without  
asbestos underlayment

\*\*Copyright 1950, The  
Philip Carey Mfg. Co.



Autumn Brown



Velvet Black



Red Shadow-Blend  
Roof Design\*\*



# Look

# what wonderful convenience and

## The Miami IMPERIAL

An exquisitely-styled, deluxe lighted cabinet to please the most discriminating taste. Side cabinets provide abundant storage space. Indirect lighting is achieved with two bulbs behind opal glass panel above center mirror. Quality and good taste are reflected in the skillful harmonizing of chromium and mirrors. No finer cabinet at any price.

## The Cavalier VENETIAN ARISTOCRAT

An all-mirror front Venetian-type cabinet designed for medium-cost homes. Popular, moderately priced. No. 1 quality, frameless mirror, copper-protected. Brass, chromium-plated piano-type hinges. 20-gauge ARMCO Bonderized steel construction with triple-coat enamel baked-on finish over rust-resistant undercoating.

## The COLONIAL No. 1406

Equipped with semi-tubular light brackets, light switch and electric convenience plug. Features an all-mirror front without frame around mirror. Selected quality mirror; ARMCO steel construction. Finished in two coats of first-quality baked-on enamel over rust-resistant undercoat. Concealed hinges. Produced by the same craftsmen who make the more expensive models, Miami COLONIAL cabinets offer top quality for the low-cost home.

## The CASCADE No. 304-A (Recessed type)

Distinctively styled by Miami-Carey craftsmen to enhance the beauty and convenience of your bathroom—designed especially to suit the budget bathroom. Framed mirror is set in stainless steel, polished and buffed to a chrome-like finish. Mirror is selected plate glass, copper protected. Features include glass shelves, razor blade drop, piano-type hinges enameled white to match the cabinet. Smartly modern—low in cost!

It's easy . . . and costs so little with

# MIAMI

# Carey

## Bathroom Cabinets, Mirrors and Accessories

Perhaps you're planning a home for two—or three—or four or more! But—whatever your needs, you'll find just the right combination for bathroom beauty and convenience that suits you—in the wide selection of Miami-Carey Bathroom Cabinets, Mirrors and Accessories.

Miami-Carey builds four great lines to satisfy a broad range of needs and an equally broad range of incomes. In all four lines, quality of craftsmanship, styling and materials predominates!

### THE MIAMI LINE

Nothing finer in smart, modern styling and convenience for truly luxurious bathrooms.

### THE CAVALIER LINE

Second only to the Miami line for bathrooms where quality, style and cost get equal consideration.

### THE COLONIAL LINE

Designed to give you Beauty on a budget! Convenience and fine quality, too.

### THE CASCADE LINE

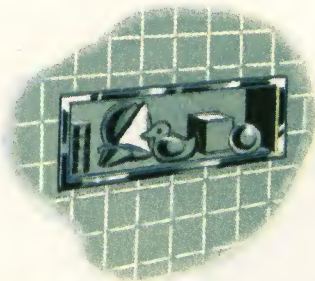
For low-cost homes, bungalows and cottages. Lowest in cost, without sacrifice in quality.

Whichever Miami-Carey line you choose, you may be sure of this—it will work wonders for you . . . in creating a bathroom that's smartly beautiful, super-convenient. A dream come true at the price you want to pay!



# beauty you can build into your bathroom!

*A Bathroom* littered with children's tub toys is a problem. Why not a recessed shelf over the bathtub? Handy—practical—economical.



*Free*

## THIS BATHROOM PLANNING BOOKLET— "44 IDEAS FOR YOUR BATHROOM"



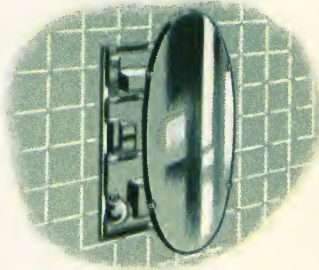
Ready now to help you plan a bathroom that reflects your individuality and good taste, economically! Brimming with really practical ideas being used right now by thousands of home owners across the land! Write for your copy today! Enclose 10c to cover postage and handling.

Dept. MC, The Philip Carey Manufacturing Company, Cincinnati 15, Ohio.

*Naturally* we couldn't show you the complete array of Miami-Carey Bathroom Cabinets, Mirrors and Accessories on these pages. Your local Carey dealer, contractor or architect will gladly show you the many, many Miami-Carey combinations for your bathroom beauty and convenience.

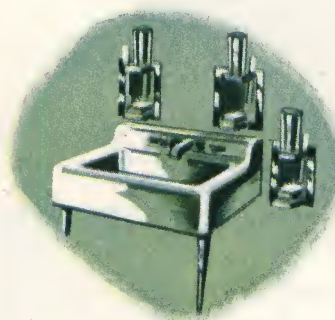
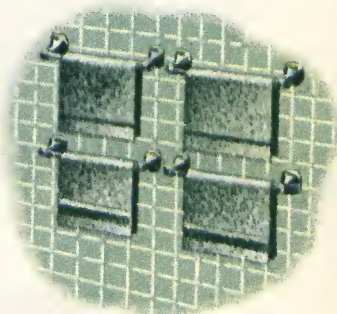
*See Him Soon!*

*Want Relief* from the straight lines of conventional mirrors? A beautiful circular mirror over make-up table or lavatory is refreshingly decorative.

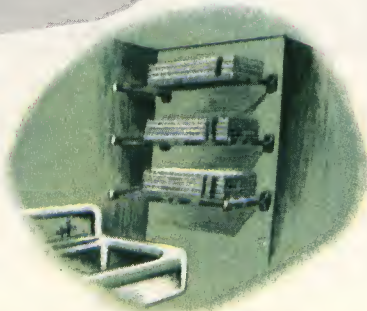


*For the Woman* who has always dreamed of a "little private dressing room" . . . a complete, custom-built, exotically-styled mirror unit. Add indirect lighting, colored side mirrors, recessed shelf—and presto! Simply install above a table, lavatory or in the powder room.

*Your Bathroom* will look smarter with sets of towel bars arranged this way on the walls. HIS and HERS . . . with pairs of Turkish and face towels.



*Water Tumblers* toothbrushes, soap . . . a combination holder for each family member. Convenient! Sanitary!



*A More Ample* towel supply for the entire family may be kept on chromium towel shelves "stacked" in this manner on bathroom walls . . . lending utility plus a brand new decorative effect! Here's a nice arrangement, with the youngster's holder lowermost!



**Carey** works wonders with asbestos to give.



**GREEN TRI-TONE**



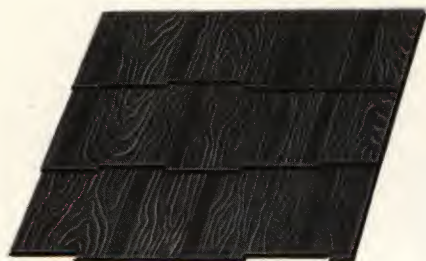
**GEORGIAN RED**



**BRISTOL GREEN**



**AUTUMN TRI-TONE**



**TUDOR BLACK**

for your roof . . .

**No. 77**

### **Asbestos-Cement Roofing Shingles**

The last word in architecturally-correct beauty at low applied cost! Deep shadow lines, American Method style, and a combination of random widths and staggered butts create a roof of matchless charm and character. Made of virtually indestructible asbestos fiber and Portland cement, Carey No. 77 asbestos-cement shingles resist fire, rot and decay . . . assure a roof that's outstandingly beautiful, wind and weather-tight.

### **Lovely exciting colors . . .**

The *exclusive* Carey Tri-Tone blends—Green Tri-Tone (three blended shades of green) Autumn Tri-Tone (rich, blended shades of red and brown).

The rich solid colors of Bristol Green, Georgian Red and Tudor Black—Your choice will add the Crowning Glory to your home.

### *Advantages . . .*

Check (✓) these advantages of Carey No. 77 Asbestos Roofing Shingles:

- Protect your home against fire
- Defy time and weather—will not rot or decay
- Crown your home with a roof of lovely color



# your home permanent charm and beauty.

for exterior walls . . .

## CERAMO

### Ceramic Glazed Asbestos-Cement Siding

Treat your home to sidewalls of snow-white CERAMO—the asbestos-cement siding with a flint-hard ceramic surface that seals out dirt, grime, moisture . . . Ceramo's pottery-like finish fused under high heat stays clean longer.

**CERAMO** is a whiter, brighter white. Scientific tests made under U. S. Bureau of Standards Methods prove that Ceramo is whiter than many white paints used for exterior of homes. Compare Ceramo white with ordinary white siding—you will be amazed!

**CERAMO** protects against fire—made from non-combustible materials—asbestos fiber and Portland cement.

**CERAMO** —will not rot or decay.

**CERAMO** —does not require painting. It saves you the first cost of painting and it continues to save you the cost of re-painting.

**CERAMO** is a modern material. It is suitable for all types of homes in all climates.

**CERAMO** walls will add permanent beauty and freshness to your home.

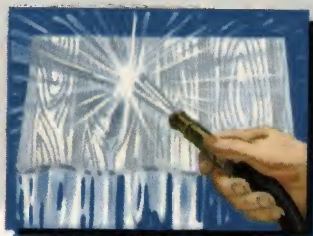
*Check*

### THESE ADVANTAGES OF CAREY CERAMO ASBESTOS-CEMENT SIDING . . .



#### SOOT TEST

Soot and atmospheric dirt are easily washed off with water.



#### HOSE TEST

Water does not penetrate CERAMO'S dense, hard surface.



#### FIRE TEST

Even a blow torch can't ignite Carey CERAMO!



#### WHITENESS TEST

Ceramo is whiter than the whitest of outside white house paints.\*



WAVELINE No. 205



STRAIGHT EDGE No. 240

**GIVE YOUR HOME A REAL FUTURE  
WITH CAREY BUILDING MATERIALS!**

ASK YOUR ARCHITECT OR BUILDER ABOUT THEM  
... OR SEE YOUR CAREY DEALER!

\*Light reflectivity tests recommended by U. S. Bureau of Standards rate CERAMO 90.7% (published figures rate lead-zinc White Paint, 2 coats 66%, Titanium Oxide White Paint 75%)



# Make Your Home a Haven of • Winter Warmth • Summer Coolness with **Carey** ROCKWOOL INSULATION Save up to 40% on fuel!

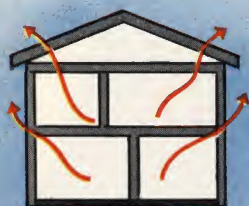


## **Carey** ROCK WOOL Takes The Simmer Out Of Summer!

Heat from the sun easily penetrates uninsulated roof; walls, ceiling; often raising inside temperatures higher than outside—the cause of miserable days and sleepless nights!



Carey Rock Wool Insulation, properly installed, locks heat outside—keeps inside temperatures up to 15° cooler than in uninsulated homes, even during summer's hottest weather!



## **Carey** ROCK WOOL Brings Winter Comfort, Fuel Savings up to 40%

In winter, heat leaks out through uninsulated roofs; walls, ceilings; results in fuel waste, drafts, cold floors and walls, hard to heat rooms. Endangers health!



Carey Rock Wool Insulation keeps heat inside; saves up to 40% on fuel; actually pays for itself within a few years—and pays you a cash dividend in fuel savings every year thereafter. Floors and walls are warm, draft-free... rooms are easier to heat, and you enjoy comfortable, healthful living!

Carey Rock Wool is one of the most practical, efficient insulation materials known! Blown from rock, liquefied under terrific heat and pressure, Carey Rock Wool consists of countless fibers honeycombed by millions of microscopic "dead air" cells. These air cells give Carey Rock Wool its amazing heat-resistant properties. Actually "full thick" Carey Rock Wool is a more efficient heat barrier than a brick wall 56 inches thick.

Carey Rock Wool is fire-resistant, rot-resistant, will not settle or disintegrate. It is clean, odorless, non-irritating to handle and as permanent as the rock from which it is made.

There's a type of Carey Rock Wool for every home insulation requirement. Ask your architect or builder to recommend the type of Carey Rock Wool that suits your needs best.

Illustration shows installation of Carey Strip Blankets. Made in both Full-Thick and Semi-Thick sizes, Carey Strip Blankets are cut to fit snugly between framing members. The new accordion-type fold, a Carey feature, virtually eliminates variations in thickness and protects the bond between vapor barrier and insulation.



## **Check** THESE ADVANTAGES OF CAREY ROCK WOOL

- Keeps homes warmer in Winter
- And makes homes cooler in Summer
- Saves up to 40% on fuel
- Resists fire
- Rot-resistant
- Water repellent
- Non-conductor of electricity
- Helps deaden sounds
- Reduces fire danger in hollow side-walls
- Easily installed
- Actually pays for itself

THE PHILIP CAREY MANUFACTURING CO.  
CINCINNATI 15, OHIO

BUILD A BETTER HOME WITH CAREY PRODUCTS • SEE YOUR CAREY DEALER NOW





*Brass and Copper*  
**in your home**

*RADIANT HEATING*

PLUMBING · ROOFING · SCREENING







*Chase Copper Tube for Radiant Heating can be installed in the ceiling in the standard thickness of plaster. Generally ceiling coils give off a larger percentage of radiant heat than either wall or floor installations. There are no radiators or grilles in a radiant heated room to interfere with the arrangement of furniture, nor circulating air currents to deposit dust on walls or draperies*







# introduction

## How to be Comfortable without Feeling Warm . . .

### RADIANT HEATING. What is it?

**T**HE WORDS "Radiant Heating" probably will not be new to you. You have seen this combination somewhere before. Nearly everyone interested in better living has heard of Radiant Heat. But what is it?

Quite simply, it is *warming* by means of radiant heat rays which pass through space (air) without having any effect upon temperature. An open fireplace, for example, radiates heat. You can be comfortable before an open fire even though the temperature of the surrounding air may be very low.

Interception of radiant heat rays by any solid object (a kettle, a table top, or a human being) at once results in the warming of that object's exposed surface. "It was hot enough to fry an egg in the street," the saying goes. The sun radiates heat. In this instance, the pavement is the intercepting object or exposed surface.

When a *person* becomes the "intercepting surface" of radiating heat rays, which tend to offset the body's natural heat loss, he feels the sensation of warmth.

In a room heated by the conventional system, the body is immersed in the heating medium, since it is the *air* that is being warmed. *Radiant Heating* directly warms the occupants of a room, with less change in air temperature. Thus, you feel comfortable in a room in which the temperature would, by ordinary standards, be considered too low for comfort.

Actually, the Radiant Heating system is not something strange and formidable, but merely our old friend, the circulating-hot-water system, with the single difference that embedded pipe coils replace the usual radiators or convectors.

In presenting this booklet, Chase Brass & Copper Co. hopes to remove some of the mystery that has long surrounded Radiant Heating, so that its principle may be readily understood.



# history OF RADIANT HEATING

## RADIANT HEATING B.C.

**R**ADIANT HEATING is older than history. Recent discoveries prove that the ancient Koreans used this principle in heating their dwellings indirectly from cooking-oven fires. Excavations at Rome and Pompeii show that the Romans were familiar with its use by means of masonry ducts beneath floors and within walls. Roman ruins uncovered in England by the ravages of World War II prove that they used metal piping, much as is done in modern work. The reconstruction of Williamsburg, Virginia, brought out evidence that the early Colonial builders made use of radiant heat from fireplace flues in the brick walls.

## THE FIRST OF THE MODERN ENGINEERED INSTALLATIONS

In the latter part of the 19th century, an awakened interest in Radiant Heating took place on the Continent, and in the Scandinavian countries, followed shortly by a similar experience in England. The first of the modern engineered installations in England appears to have been made about 1907.

Since then, Radiant Heating has been extensively adopted by the English for dwellings, industrial plants, stores, restaurants, office buildings, schools, hospitals and churches. Best known church is the famous Liverpool Cathedral which employs warm air circulated below the masonry floors as the heating medium.

## ONE OF THE EARLIEST INSTALLATIONS IN THIS COUNTRY

The early success of Radiant Heating on the continent



*Early Roman application of Radiant Heating. From masonry ducts warm the floor and walls, heat the*

and in England so aroused the interest of engineers in the United States that Mr. Theodore Crane, Supt. of Construction, (now professor of Architectural Engineering at the Yale School of Fine Arts) was requested to lay out a radiant heating system for the Cornell Cosmopolitan Club, Ithaca, N. Y., in 1910.

Drawing on the limited amount of material published on English practice, Mr. Crane had a test conducted in one room, the results of which were encouraging enough to warrant its adoption for the entire building. One inch ferrous pipe was laid in channels in the concrete floor and covered with quarry tile. Steam and hot water was circulated through the coils. These proved adequate for all the rooms except the corners, where radiators were added later to supplement the experimental coils. In the years since these crude beginnings, hundreds of scientifically designed radiant heating systems have been installed throughout this country.

*In 1910 the Cornell Cosmopolitan Club was one of the first Radiant Heating installations in this country.*





# explanation OF RADIANT HEATING

## THE FIREPLACE

### (Radiant Heating Principle)

**T**HE principle of Radiant Heating exists in such commonplace things as an open fireplace, outdoor camp fire, or the familiar electric spot-heater. In all of these, it should be noted, no attempt is made to heat the air or room surfaces surrounding a person.

Indeed, the conventional thermometer might indicate a temperature near freezing, yet the Radiant Heat from a fireplace will produce a sensation of comfort (or even discomfort from too much heat) to persons within range, even if a window is opened on a still, cold day. Its main drawback is that it does not distribute the radiant heat evenly to a person, but tends to concentrate high temperatures on one side of the body, while the other side remains relatively cool.

The secret of the success of embedded pipe coils is that they distribute relatively low temperature radiant heat rays over large areas, causing heat to reach all sides of the human body in nearly equal intensity.

## HUMAN BEINGS AND

### THE COMFORT BALANCE

People are energy-producing machines. Food is the fuel they burn and, like any fuel, it generates heat. A normally active human generates heat at a rate of approximately 500 heat units per hour.

But only about 100 of these units are required for normal requirements of the body. This leaves 400 to be dissipated in form of heat in order to maintain what is known as a "comfort balance."

## THE HEATING SYSTEM

### ...Nature's Helper

Under ordinary conditions, Nature takes care of our "comfort balance." However, when summer heat or winter cold tips this balance, the mechanical cooling or heating system is put into use as Nature's helper.

There are four ways in which your body can lose heat. But the two principal ones are by *convection* to the surrounding air, and by *radiation* to any near-by surface (such as a ceiling, floor or window-pane).



*The camp fire and fireplace are early forms of radiant heat.*

## SINGLE BASIC REQUIREMENT FOR A HEATING SYSTEM

What this amounts to is simply this—that the single basic job of any heating system is to permit persons within reach to lose body heat at a uniform hourly rate. The conventional radiator and warm air heating systems take care of this by keeping room air warm. This kind of heating system pays little attention to the temperature of floors, ceilings or walls.

## TO UNDERSTAND RADIANT HEATING — Forget AIR Temperature

The primary function of the *Radiant Heating* system is to keep people comfortably warm by heating the ceiling, floor or walls of the room, and checking the body heat loss by radiation. Thus, in a radiant heated room, you will have no use for the ordinary thermometer since the chances are you will be entirely comfortable, at temperatures less than 70°F.

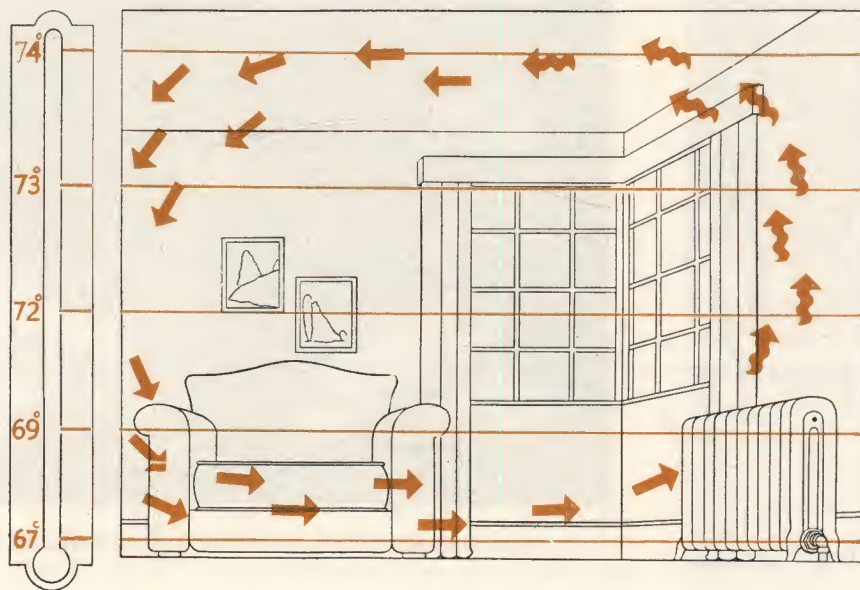


# COMPARISON OF CONVENTIONAL and *RADIANT HEATING*

Use of the ceiling area as a radiating panel has the advantage of giving more heat into the room, and a greater percentage of radiant heat than any other location. Another advantage of this location is that plumbing fixtures, kitchen cabinets, and various types of built-in equipment may make it difficult to install adequate floor coils, while an unobstructed ceiling may be covered with buried tube if necessary.

Where desired, the ceiling system may be augmented by floor or wall coils located at strategic points which act as additional heating sources.

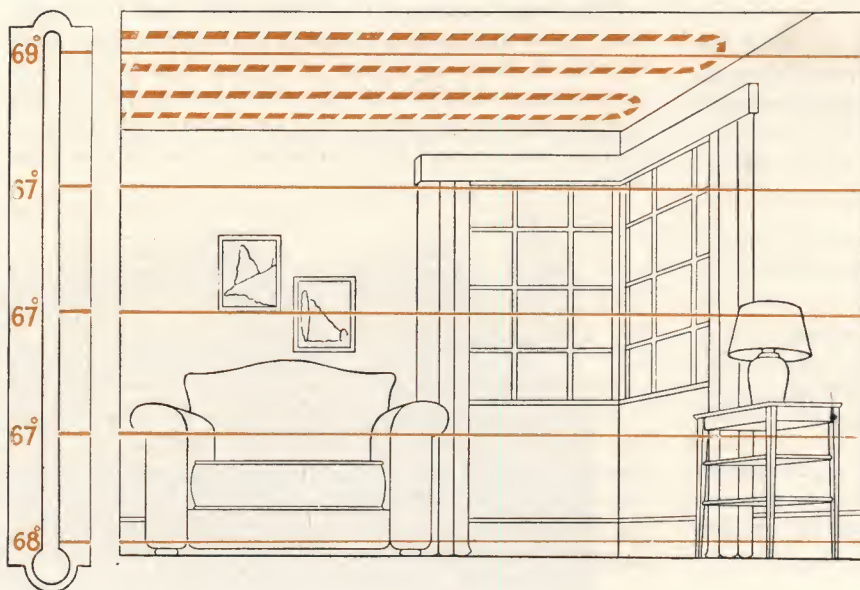
In the average two story house, the first floor ceiling is a good place to have the radiating panel. The heat flowing downward provides for the first story, while the "loss" flowing upward makes a "radiating panel" of the second floor capable of supplying about 25% of the second story's heat requirements. In this case the first floor ceiling should not be insulated, but the second floor ceiling which provides the other 75% of the heat should be fully insulated. Many people find the heat from the first floor ceiling is sufficient for second floor bedrooms, which are usually kept cooler.



## CONVENTIONAL HEATING

The radiator (or warm air register) heats the air above it. This heated air rises and is replaced by new cold air that causes air currents to move throughout the room. These air currents often create drafts, spread dust, and cause hot air to collect near the ceiling and cool air near the floor.

Notice the temperature levels in the illustration at left and compare them with the Radiant Heating drawing below.



## RADIANT HEATING

Healthier and more economical to operate, Radiant Heating warms the interior surfaces (ceiling, floor or walls) of a room rather than the air.

When this happens, as shown by the thermometer opposite, the cold layer at floor level is eliminated. Moreover, since a person is comfortable at a lower temperature in a radiant-heated room than in a room heated in the conventional way, it should result in a saving in annual heating costs.

Notice in the illustrations that by eliminating the radiator there is more wall and floor space for arranging furniture, and hanging full-length window curtains.



# COPPER



## Radiant heating IN A NEW HOME

THIS house\* is located in New England where the winters can be severely cold, and the weather is noted for its sudden changes in temperature, a good test for the efficiency of any heating system. Houses with large glass areas are usually difficult to heat by conventional methods, but this house was comfortably heated with Radiant Heat.

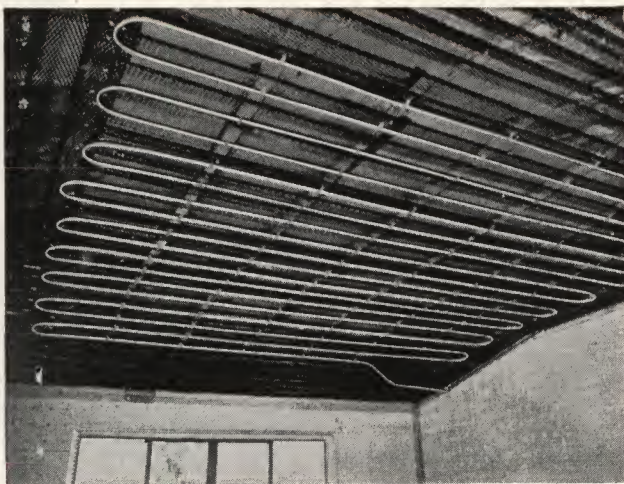
This Radiant Heating installation of Chase copper tube was installed in 1941. With the co-operation of the owner, individual panel controls, thermocouples, etc., were placed in the system, permitting our engineers to obtain first-hand information about the performance of Radiant Heating, both during the construction of the house, and during occupancy. It served as an actual laboratory, and all data pertaining to the operation of the Radiant Heating system, and air temperatures at varying room levels were carefully recorded during the extreme conditions prevailing in the winter of 1942-43.

The owners of this home report that they have had to do no redecorating whatever since the house was completed five years ago, and that their bills for cleaning draperies have been substantially reduced.

\*Residence, Cheshire, Conn., Bradford S. Tilney, Architect



*This is the finished appearance of the living room. Notice the high ceiling, large window glass areas, and that there are no standing radiators to interfere with the arrangement of furniture.*



*Copper tube can be installed in ceiling in long continuous lengths and covered with the normal depth of plaster.*



*This close-up of the ceiling panel shows how copper tube is held to the joists or furring strips with copper straps.*



*The master bedroom floor is comfortably tempered from the ceiling panel in the first story room directly below and with supplementary warmth, as required, provided by the ceiling panel in the bedroom.*



# COPPER radiant heating

## *In an Architect's Home*

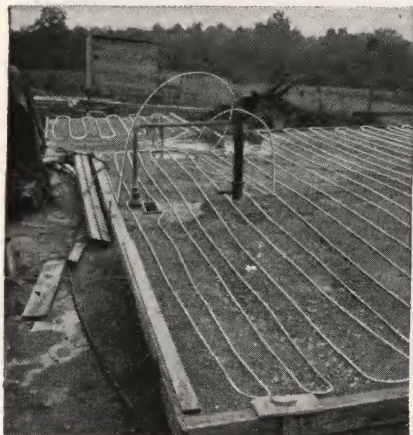
This house was designed and built by an Architect\* for his own use, and in writing for the January 1944 issue of the Architectural Forum magazine, he said:

"This house was built with no thought of pleasing anyone but the Architect's family. It was planned for informal living and easy housekeeping, and to take advantage of the extensive views offered by the 1½ acre site. Most important, it was designed to meet the real needs of a fairly typical family, with few concessions to conservatism and every effort made to incorporate recent technological advances.

"Probably for this reason the design offers an excellent prototype for the postwar house for sale which must, above all, put aside preconceived ideas in favor of a fresh evaluation of what people really need and how best to supply it. It is a practical house with many attractive sales features . . . including floor heating which made possible an unusually economical foundation and floor construction.

"Despite the generous windows, the average combined cost of both domestic hot water and radiant floor heating (supplemented by ceiling panels in the living room and bathroom) has been (automatic oil-fired) \$8.50 a month over a two year period."

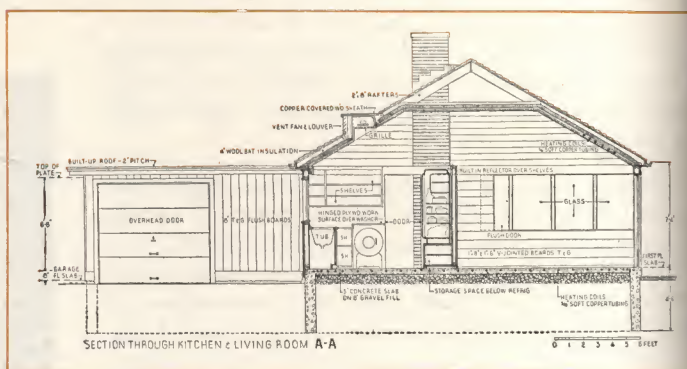
\*Residence, North Haven, Conn., M. G. Duncan, Architect



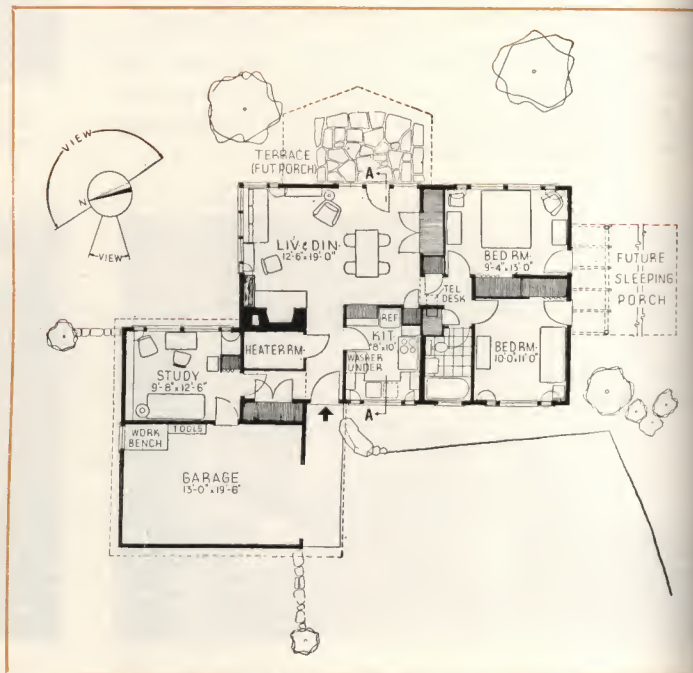
Approximately 1,200 ft. of ⅜" Type L Copper Tube was built into panel coils for this house.



The Architect selected copper tube for Radiant Heating his home built in 1941. Despite the full exposure and large glass areas, it was heated at a very low cost.



The radiant heating coils in the basement floor and living room ceiling are ⅜ inch Chase Copper Tube.



Notice that the greatest glass areas are toward the most severe weather exposures. In spite of this, the children played on the living room floors in perfect comfort.



## NEW ADDITION *equipped with RADIANT HEATING*

**I**n this house, already equipped with a steam heating system, the owner wished to enjoy the comforts of Radiant Heating in the addition of a new bathroom and dressing room, without going to the extra expense of converting the whole heating system to circulating hot water.

By the simple procedure of installing a by-pass at the domestic hot water connection of the steam boiler, the heating contractor ran a separately controlled miniature hot water system to the floor coil in the bathroom and the wall coil in the dressing room.

It was obviously a more costly installation than it would have been to alter and extend the



*Forced hot water Radiant Heating was installed in the new addition to this house as an extension to the conventional steam heating system in use.*



*Radiant Heating copper pipes were installed in the dressing-room wall.*

existing steam system to heat the new rooms, but it did give Radiant Heat to the owner who was well pleased with it.

Had the original heating system been a circulating hot water system, the cost of changing to Radiant Heat for the new rooms would have been nominal.

## OLD HOUSE REMODELED *with RADIANT HEATING*

This is a fine old colonial home, sturdily built, attractive, and in excellent condition on the outside, but the interior was old and in need of a complete job of modernization.

The hot air heating system was inadequate and worn out. Since a completely new heating system was required, any type could have been installed, but Radiant Heating was chosen.

The old ceilings were used as the base for new ceilings, and the Radiant Heating copper pipes installed between the old and new ceilings. Furring was nailed to the old ceilings; the copper tube was fastened to sheets of Gypsum board and erected as three large prefabricated ceiling coils.



*Radiant Heating replaced hot air heating in this house.*



*Note the absence of radiators in radiantly heated rooms.*

The joints between the large sheets were taped and the whole ceiling area painted in the usual way.

Circulating hot water Radiant Heating is ideally suited for installation in old houses where space is limited. It will compete in price with any 2-pipe system, but its cost will not be as low as gravity warm air or any 1-pipe system.



# advantages OF RADIANT HEATING



**1.** More floor space. Radiant Heating eliminates unsightly radiators and grilles, as well as the need for window recesses to accommodate radiators. This has the effect not only of making a room *look* larger, but actually of increasing the amount of usable floor space.

**2.** More attractive interior decoration. With Radiant Heating there are no restrictions on the furniture arrangement or wall decorations in a room. The interior decorator has full freedom so that each room may be furnished to best advantage.

**3.** Plants and flowers need sun. They can be placed in front of window with radiant heating. They cannot with usual radiators which are generally placed under windows, and heat wilts flowers.

**4.** Less streaking and dust on walls and ceiling. In the Radiant Heating system there are lower velocities of air currents, and a notable absence of high temperature concentration, which normally causes streaking and dust deposits on walls and ceilings.

**5.** Fewer fire hazards. The simplified structural design that Radiant Heating permits, eliminating radiator recesses, duct spaces, etc., reduces fire hazards in the commercial building and overcomes many troublesome architectural and engineering design problems wherever the Radiant Heating system is adopted.

**6.** Re-arrangement of partitions. With ceilings or floors as the source of heat, interior partitions may be changed about at will, giving a house an entirely new appearance, without altering the performance or plan of the heating system.

**7.** Heat during construction. Since Radiant Heating panels are built into ceilings, floors and walls, the complete heating system is progressively constructed as the building goes up. This avoids any need for "temporary settings," and makes heat available during construction.

**8.** Warm floors in basementless homes. Radiant Heating is the only system that does away with cold floors where there is no basement. One reason for this is the thermal resistance of the earth; the temperature loss downward from a floor panel is negligible.

**9.** Lower operating costs. A well designed Radiant Heating system should result in the lowest over-all operating and general maintenance expense for the heating plant. This is because radiant panels permit relatively low temperatures in the heating medium, avoiding the necessity for maintaining at higher temperatures the conventional radiator which is normally placed against the coldest (wall and glass) exposure. To Radiant Heating's fuel economy can be added appreciable savings in expenditures for repainting interior surfaces and cleaning furnishings.

TABLE OF COMPARATIVE EQUIPMENT

Type of Equipment	Conventional Heating	Radiant Heating
Furnace		
Oil Burner	same	same
Gas Burner	same	same
Boiler	same	same
Stoker	same	same
Hand Fired	same	same
Domestic Hot Water System	same	same
Circulating Pump	same	same
Controls	same	same
Distribution & Return Main	same	same
Branches	same	same
Control Valves	same	same
Radiators (open or concealed)		Not Used
Imbedded Pipe Coils	Not Used	



# WHY copper tube IS BEST FOR *RADIANT HEATING*

**W** E come now to the selection of a material for tube coils—the “arteries” of a Radiant Heating system. This is probably the most important consideration of all in a Radiant Heating installation since, as we have seen, Radiant heat is very much like the conventional system save for the fact that the coils are used instead of radiators.

Further, it should be remembered that these tube coils, like radiators, are imbedded in ceilings, walls or floors. They become permanent installations . . . a functional part of the construction, in other words, and so the material for them should be selected with an eye to durability.

Copper, engineers and architects are generally agreed, is the ideal material for tube coils. It is unusually durable, and its ability to conduct and transmit heat is, of course, widely known. But in addition, copper possesses a number of other characteristics vitally important to the efficient installation and operation of a modern Radiant Heating system.

Copper comes in small sizes and long lengths which, together with lightness in weight make it easy to bend by hand to meet design and construction problems. This presents a sizable saving, since it eliminates numerous joints in the coil formation (Copper is joined to fittings by conventional soldering operations familiar to all pipe fitters.)

Tube coils for Radiant Heating, it is well to note, should have as nearly as possible the same coefficient of expansion as the surrounding material (usually plaster) in order to prevent ceilings, floors and walls from developing unsightly cracks. Copper's coefficient of expansion is practically identical with that of plaster.

Finally, copper is resistant to corrosion. In most parts of the country, copper tube can be used with safety, and when installed with soldered joints, its freedom from scale and the building up of rust deposits on the interior, make it ideal for the circulation of water through pumps and small-diameter piping. Where well water is to be used, or where doubt exists as to water, the owner should send a sealed sample to our laboratory for analysis.

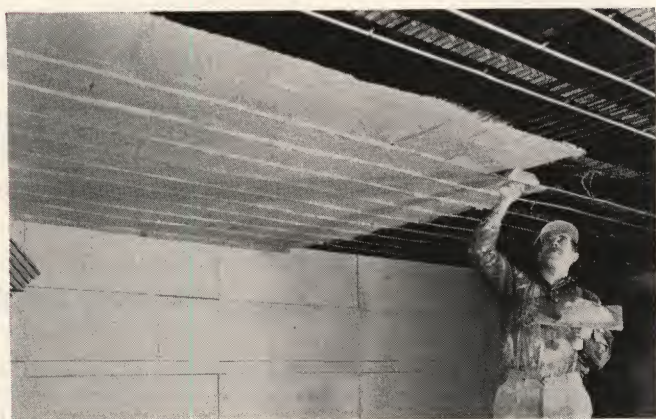
From whatever angle you approach the question of tube selection—ease of installation, heat conductivity, or durability in service—the advantages of copper are outstanding. Leading architects and engineers have been quick to recognize this unique fitness of copper for Radiant Heating systems, for in report after report of installations throughout the country, the plans specify copper for the all-important tube coils.



*Locating the position of the first tube in the ceiling panel coil. Notice the coil of copper tube temporarily hung from the mesh with a U-hook while the measurement is being taken.*



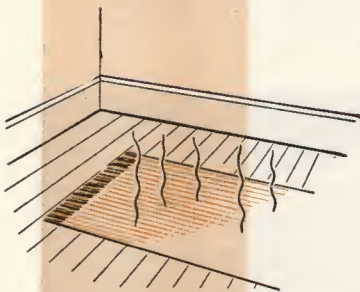
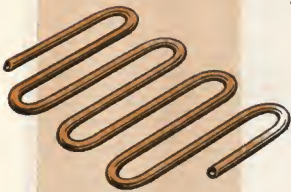
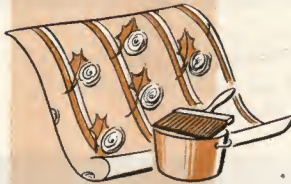
*Making uniform bends by hand, to the required center-to-center distance of tubes, using a helical spring to bend the tube.*



*Applying the first or scratch coat of Gypsum plaster to ceiling. Other coats will follow to give final cover of 1/4" over copper tube.*



# QUESTIONS *and* ANSWERS



**Q.** Will Radiant Heating dry out furniture or harm fabrics more so than conventional heating systems?

**A.** No, the opposite is true. Radiant Heating affects furniture or draperies less than conventional types of heating.

**Q.** Will Radiant Heating coils installed in walls affect wall paint or paper?

**A.** No.

**Q.** Do walls feel hot to the touch?

**A.** No, pleasantly warm.

**Q.** Do Radiant Heating coils, when properly installed, have any tendency to crack the plaster in ceilings or walls?

**A.** No. Home-owners are familiar of course with the fact that "hairline cracks" will often appear even in a well-built house. However, the properly installed Radiant Heating system will not cause plaster to crack.

**Q.** What happens if water lies in panel coils? Radiators can be drained . . . how do you draw off the water from pipes installed in a floor or ceiling?

**A.** Ceiling and floor pipes can easily be drained by conventional methods. No trouble need be expected from the Radiant Heating system.

**Q.** If a radiant panel is in the floor, will rugs or carpet interfere with heat radiation? Will the rug be damaged?

**A.** No. Radiation will be slower until the room warms up; after that, no difference. No "drying" of rugs can be expected with surface temperatures less than 85° F.

**Q.** When Radiant Heat coils are set in a floor, does this affect floor varnish or wax polish . . . are the coils liable to cause buckling of floor boards or damage linoleum?

**A.** No. If floor temperatures are kept below 85° F. the heat from floor coils will not exceed that of summer sunlight falling on the surface of the floor.



# QUESTIONS *and* ANSWERS



Q. Where is the best place to install pipe coils for Radiant Heating—in a floor, wall or ceiling?

A. Consult your architect or heating contractor. Generally speaking ceiling installations are most favorable, floors next, with walls the least desirable.

Q. Why is Radiant Heating recommended for ceiling installation more often than in floors which would seem to be the logical place?

A. Ceiling installation provides a greater percentage\* of Radiant Heat than either floor or walls. (Conventional steam and hot water systems provide a certain amount of radiant heat—about 20% from a radiator, but a *Radiant Heating system*—installed in the ceiling—offers the greatest amount.)

\*Comparison of Radiant Heating Efficiency

Type of Panel	Amount of heat given off to the room		
Ceiling	65%	Radiant	Heat
Wall	52%	"	"
Floor	48%	"	"

Q. Does heat from heated walls warp woodwork, dry out paint, injure pictures, etc.?

A. No. However, walls are very seldom used for radiant heating.

Q. Is there a tendency towards dry air in a Radiant Heated room? If so, how is this overcome?

A. There is no more tendency than in any other system and it can be overcome by using a humidifier, the same as with conventional heating systems.

Q. Can you use Radiant Heating in remodeling an existing house?

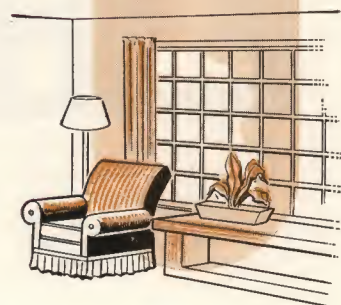
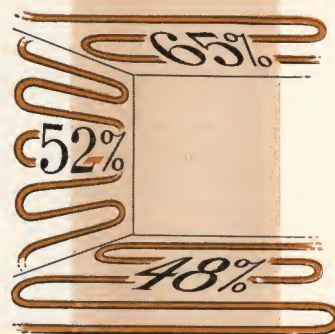
A. Yes.

Q. What kind of controls are required?

A. Same as any good conventional circulating hot water system.

Q. Can you use Radiant Heating for the new type houses with extra large windows?

A. Yes.





# THE radiant heating INSTALLATION

## *How to go about it*

### FOR YOUR PRESENT HOUSE

You needn't wait until that "someday" when you're *going to build* to install a Radiant Heating system. It can be installed in your present house, or as a remodeling job, as in the renovated house shown on page 9.

For Radiant Heating makes use of conventional heating equipment, except that copper tube coils are substituted for radiators. Your heating contractor is qualified to handle a Radiant Heating installation for you. Consult him.

### FOR THAT NEW HOUSE

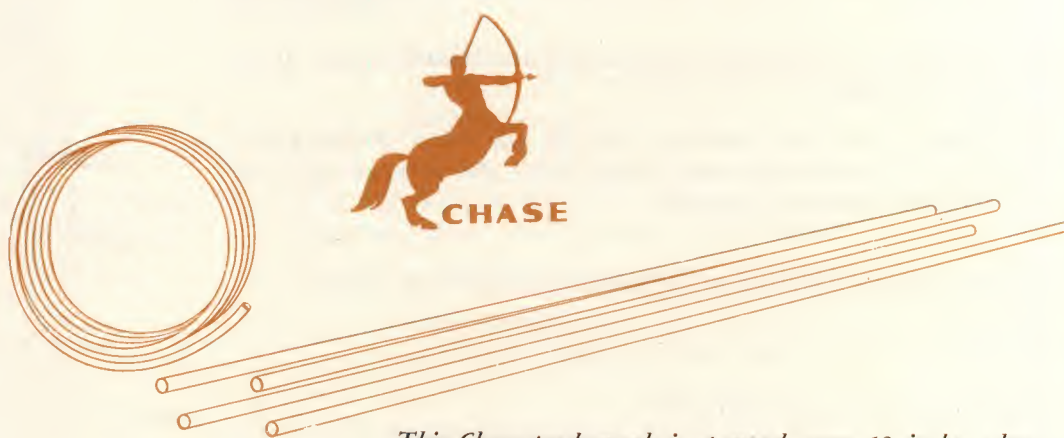
If, of course, you plan to *build*, and you are interested in a Radiant Heating system then you will want to discuss the installation of it with your architect. He can advise

you concerning the procedure necessary to follow in designing a Radiant Heating system to meet any given set of conditions applying to your building or its location.

### INSIST ON CHASE COPPER TUBE

Remember that a Radiant Heating installation is a *permanent* part of the construction of a building in which it is installed. Therefore, as much care should be taken in selecting tube coils to be embedded in floor and ceiling panels, as in choosing pipe for concealed water lines.

For this all-important assignment, copper is the ideal material (see page 11), and there is no finer copper than the product of Chase Brass & Copper Co. Specify Chase Copper Tube coils when you install a Radiant Heating system . . . to enjoy Radiant Heat at its best.



*This Chase trade-mark is stamped every 12 inches along the length of all Chase Copper Tube for Radiant Heating and plumbing lines. If it isn't there, it isn't Chase!*



# CHASE COPPER WATER TUBE BRINGS A FULL CLEAR FLOW OF WATER *from every faucet*

**W**HEN you take into consideration all the factors that enter into a plumbing system, the original cost of the plumbing installation, the cost of upkeep and repairs, the cost of the water you use, the cost of heating water, the need for a full flow of clean water—you will find that the most economical system is an installation of copper water tube and solder-joint fittings.

Chase Copper Water Tube will always give you plenty of water unless, of course, the city water pressure is inadequate. Downstairs, upstairs, and all over the house there is always a full flow of water for everyone at the same time. For copper, you see, is resistant to corrosion and does not choke up with rust to cut down the water flow at faucets.

Doing dishes can be a quicker, easier job when there is no waiting for a puny flow of water to fill the dishpan. And with plenty of clean hot water to wash the clothes in, you get snowy-white fabrics from your washing machine or laundry tubs.

Your bath too will be more enjoyable because you won't have to wait for what seems like hours to fill the tub. And your shower will have that refreshing zip that is always lacking with rusty, clogged-up water lines.

## INEXPENSIVE

Chase copper tube and solder-joint fittings are not expensive. The first cost is only slightly more than an installation of ordinary pipe. In many cases it is possible to cut down the cost even more by using a smaller size tube, than rustable pipe, because no allowance need be made for rust.

## SAVES WATER

Chase copper tube actually saves water. Less water is drawn before the water runs hot at the faucet because copper tube does not absorb as much of the heat from the water as rusted pipes do.

## SAVES HEAT

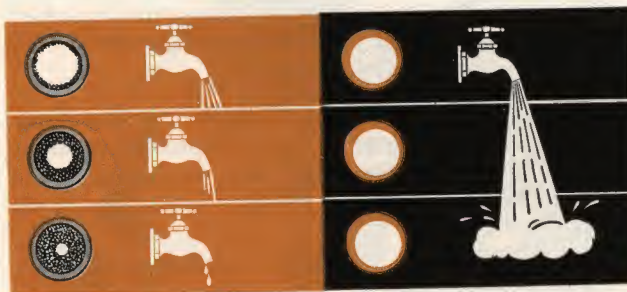
Chase copper tube and solder-joint fittings will save in the cost of heating water. This is because copper absorbs and radiates (loses) less heat than ferrous pipe. If you place your hand near ferrous pipe in which hot water is being conducted, you will feel the heat loss. Therefore, hot water in copper tube does not cool off as quickly.



*Full water pressure through copper tube that does not choke-up with rust helps make sudsy water.*

## REPAIRS

For repairing and replacing rust-clogged or rust-eaten pipes, Chase flexible copper tube is ideal, and offers the owner of an existing home a chance to modernize his plumbing system at minimum expense. See next page for more complete information.



**PIPES THAT RUST**  
*When rustable pipe clogs up with rust, it leaves a smaller and smaller hole. Eventually expensive replacement must be made.*

**COPPER WATER TUBE**  
*Chase copper water tube after many years of service still gives a full flow of water. The inside is still smooth and clean.*





*In the old days, walls and floors had to be torn open, but now with Chase flexible copper tube the plumber can snake it down through a small opening in the wall.*

## HOW IT WORKS

Instead of tearing gaping holes in walls expensive to replace, the plumber takes a coil of Chase flexible copper water tube and works it down through the space between the walls and snakes it under the flooring. This tube is strong enough to be pushed between the walls, yet flexible enough to be bent around any obstructions.

Chase flexible copper water tube can be worked from floor to floor in one continuous length, for it comes in coils of 40, 60 and 100 feet.

## OLD PIPES CAN REMAIN

It is not always necessary to remove the old pipes in order to install copper water tube. Having proved a costly expense in the first place, they are not worth the added cost of removal. If there is room, leave them there. They are occupying unusable space anyway.

Chase flexible copper water tube can be installed alongside the old worn-out pipes. Often a replacement can be made without discontinuing the water service except for a short interruption to make the final connection to the outlets.

*How Chase flexible copper water tube is bent around obstructions to eliminate pipe fittings and their extra cost.*



# CHASE FLEXIBLE COPPER WATER TUBE *FOR EASIER* *REPLACEMENTS*

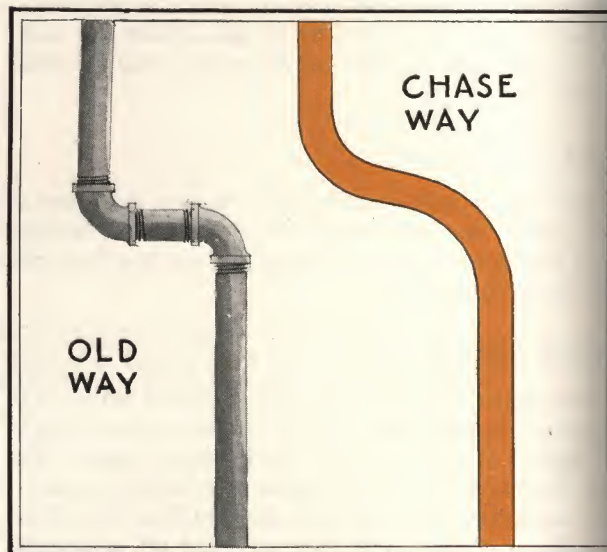
**I**f you have a building with rust-clogged water pipes, here is a way to replace them inexpensively with Chase copper water tube.

Ordinarily, replacements with straight lengths of rigid pipe require wholesale destruction of walls and floors, with repair bills not only from the plumber, but also from the plasterer, the carpenter and the painter as well.

Chase flexible copper water tube, however, has eliminated most of these charges. It has made replacements not only easier to do but less expensive to have done. Many times the removal of a baseboard or a single floor board is all that is necessary to make the replacement.

## REDUCES COST OF MODERNIZING

Using copper tube in long 40, 60 and 100 foot lengths eliminates many fittings, and fewer fittings mean less cost. Chase flared fittings require no threading. They are assembled over copper tube, then flared—in the same way as fittings are used on locomotives, and on the gas and oil lines of your automobile. The reduced demolition to the walls and floors in installing Chase flexible copper water tube, the elimination of many fittings, and the quicker flanging operation makes the cost for modernizing plumbing a moderate expense.







## CHASE COPPER TUBE *and* SOLDER-JOINT FITTINGS *FOR DRAINAGE LINES*

**C**HASE copper water tube and solder-joint drainage fittings are recommended for all waste and vent piping systems. They have the following outstanding advantages for waste lines:

1. The interior of Chase copper water tube is as smooth as a gun barrel.
2. There is no roughness to which foreign matter can cling, gradually accumulate and clog the drain pipes.
3. There are no threaded pipe ends to retard the swift flow of disposed water and for grease to pile up at the threads.

Chase drainage fittings are made with long sweep



*There is no roughness to the inside of Chase copper tube drainage lines to retard the flow or for grease to pile up against.*

elbows that offer no resistance to fast quiet draining. The inside diameter of the fitting is the same as the copper tube and the outside is hardly larger. Chase solder-joint drainage fittings are a good deal less bulky than threaded fittings, and because of their reduced bulk it is unnecessary to cut away such large sections of strengthening supports when concealing drain pipes between studs and joists.

## CHASE FLEXIBLE COPPER WATER TUBE *FROM* *STREET MAIN TO HOUSE*

The main service line running from the water main in the street to your house carries every drop of water you use. The condition of this pipe affects the water that passes through it. If it is choked with rust there will never be more than a slow, irritating flow of water from the faucets. If it freezes and breaks, your water is cut off, and to make repairs you must tear up expensive sidewalks, beautiful grass lawns and shrubbery.

For this all important line, Chase flexible copper water tube is the best to use. It is so well adapted for underground use that city water-works engineers and private companies all over the country are using it.

Chase copper tube underground lines will give excellent service in waters of practically all types, and because copper expands and contracts with heat and cold, it has been frozen again and again without bursting, a feature unique to flexible copper water tube.

There is no need to dig wide ditches, blast rocks, or remove tree roots to install Chase copper water tube. This flexible tube is bent around obstructions, saving fittings, and usually installed in one piece from the curb stop to the house, from 60 ft. coils.



*For the main water service line, Chase flexible copper water tube is the best pipe to use.*





*Make sure that your Chase bronze insect wire screening is fastened to the screen frames with Chase copper tacks and pins.*

# chase

## BRONZE SCREEN

### FOR LONG LIFE AND BEAUTY

### FOR YOUR HOME

**O**NE of the many decisions you must make in the completion of your home is the selection of screens for your windows. When your home is brand new, the saving of a few cents per screen for rustable metal may seem a logical saving to make. But rustable metal, even when painted and painted again, keeps right on rusting until it breaks down completely.

A strand of wire will be eaten away here and there in spite of your constant attention. And the worst part of it is that a screen with a hole big enough to let in one insect is as good as no screen at all. You must either patch it—which is unsightly—or replace it—which is costly.

It is logical and economical, therefore, to install screens for your windows, doors, and porches of Chase bronze insect wire screening right in the beginning. This strong cloth is made from .011" diameter wire as approved by the Bureau of Standards. It has been found strong enough to withstand the abuse that screens receive.

## *Solid BRASS AND BRONZE BUILDING HARDWARE*

### *is the sign of a well planned home.*

When you build, the use of solid brass and bronze building hardware is one of the best investments you can make in your home for appearance and permanence. Less durable metals often are more expensive, for replacement costs run high.

Door locks, handles, knockers and hinges of brass or bronze are corrosion-resistant and do not rust. A door that's hung from a brass hinge swings easily and quietly. No rust will interfere with its easy operation. Brass locks work smoothly in all climatic conditions.

Your friends get their first impression of your house from the appearance of your front door. The golden mellowness of a brass door knocker, knob, and brass or copper exterior lantern lend charm to your door and reflect good taste and pride in your home.

Chase does not make building hardware. Chase does, however, supply brass and bronze to many manufacturers of building hardware.





# chase

## COPPER ROOFING PRODUCTS

*protect the outside of your home*

**R**AIN causes serious damage both outside and inside the building. A succession of storms hitting a roof will rot away rustable flashings, causing roof failure and leaks which will allow water to enter the building, stain the walls, and weaken the ceilings.

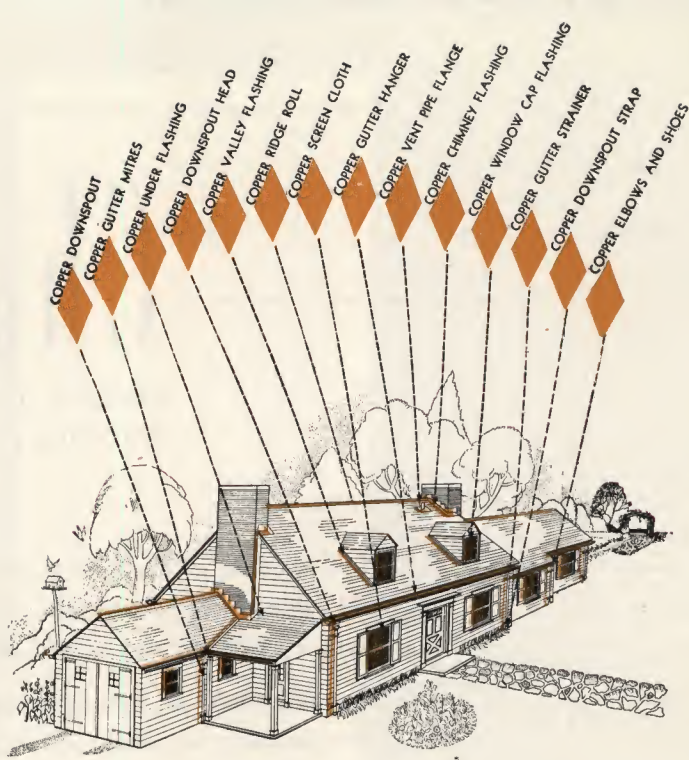
To help prevent this, use full weight 16 oz. Chase copper roofing products. It takes copper of this strength to withstand the strain imposed by snow and ice.

### CHASE COPPER GUTTERS

These are the metal troughs that collect water as it comes off the roof and carry it to the downspouts where it can be disposed safely. Uncontrolled water, running off the roof, will spoil foliage, shrubs and flower beds near the house.

### CHASE COPPER DOWNSPOUTS AND HEADS

Water in the gutter is carried to the downspout head and through the downspout to a point where it will drain away harmlessly.



*The outside of every house should have copper at these vulnerable spots on the roof where every joint is a potential leak if not properly flashed.*

### CHASE COPPER FLASHING

A "flashing" is simply a flat piece of copper which is used to keep water from leaking into your house at the places where the roof joins the chimney, or at the side of a dormer window, or where two sections of roof meet at different angles.

### CHASE COPPER RIDGE ROLL

The ridge roll is a protecting cap that fits over the apex of gable roofs or dormer windows.

The joint formed where two flat surfaces meet is one of the most vulnerable spots in roof construction.

### CHASE COPPER FITTINGS AND ACCESSORIES

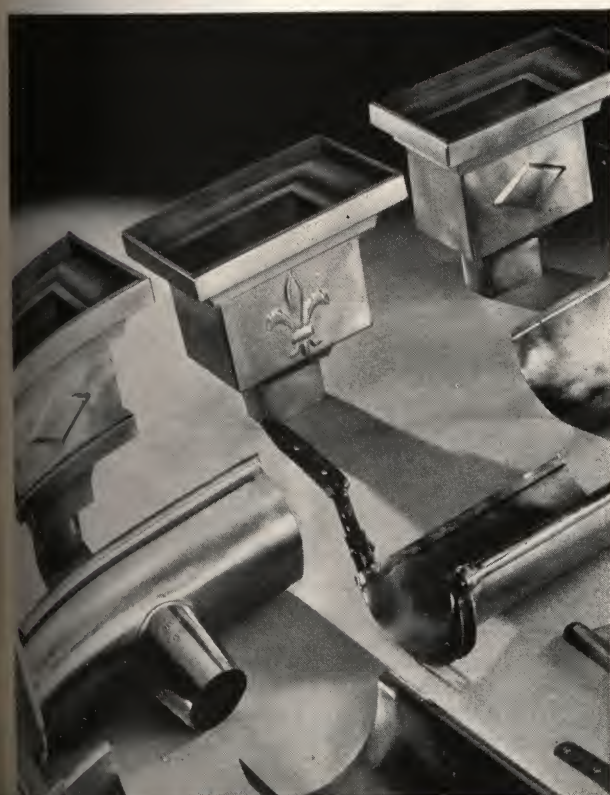
It is most important that all fittings and accessories, such as elbows, end caps, straps, strainers and nails be made of enduring copper.

### CHASE COPPER ROOFS

There is probably no roofing material which has a longer life than copper. Copper roofs have weathered the storms of more than 100 years, without even the protection of paint.



*Look for the Chase trade-mark on Chase copper roofing products, made of full-weight, 16 ounce copper, an extra thickness to withstand the attacks of snow, ice, and high winds.*





# Chase

BRASS & COPPER CO.  
Waterbury 91, Conn.

## Where to Buy

If you retain an architect, he is probably already well familiar with Chase brass and copper building products. Architects have been specifying Chase for many years for all types and sizes of buildings.

Your plumbing and heating contractor, building contractor, roofer, and screen manufacturer can obtain Chase red brass pipe and copper water tube for plumbing and heating lines, copper roofing products, and bronze insect wire screening through his regular channels of distribution.







# Heatmaster

## AUTOMATIC WATER HEATERS

No household item contributes more to comfortable living than a dependable automatic water heater. You'll want to be sure, then, that you get the right water heater for your home.

The enjoyment of plenty of hot water—*safely, dependably and economically*—depends upon a number of important factors. These are listed and explained on the following pages. Consider them carefully when you make your purchase. After you've compared feature for feature—all those things which give you the most value for your money—you'll know why so many people compare—then buy a C-E HEATMASTER

**Combustion Engineering-Superheater, Inc.**

Bulletin WC-150



# MAKE THIS YOUR GUIDE TO HOT-WATER ENJOYMENT!

## 1 Get an Automatic Water Heater



Only a *completely automatic* water heater gives you all the hot water you want when you want it without work or worry on your part. You can install it and forget it. Quietly and safely, an automatic water heater saves time, trouble and money.

C-E HEATMASTER water heaters are *completely automatic*. The scientifically designed and quality constructed features keep water hot safely for many hours—*quickly* and *economically* replace hot water that is drawn off for those hundreds of household uses.

## 2 Get a Big Enough Water Heater for Your Needs



You expect and are entitled to “hotel” hot water service from your automatic water heater. So be sure it is *large* enough for all your family’s needs—washdays and all other days. Remember, new water-using appliances may be added and families grow. Don’t expect a coupe-sized heater to do a sedan-sized job. C-E HEATMASTER water heaters are available in sizes to meet your own family needs. Your plumbing and heating contractor can recommend the proper size HEATMASTER you need for hot-water enjoyment—at lowest possible cost.

## 3 Choose the Right Fuel for Most Economical Use



The water heater most economical for you to use depends upon “utility rates” in your particular area. Just as hot water needs of families vary, so do “fuel” costs vary. Your plumbing and heating contractor can advise you what type heater will be the most economical in your locality. C-E HEATMASTER water heaters are available in electric and gas (including LP gas) models. And with a HEATMASTER you get the most efficient use of the most economical fuel.

## 4 Get the Answers to These Vital Questions



### Who manufactures the water heater?

Know what company actually makes (as well as sells) the water heater you plan to buy. Find out its record and reputation for quality products and dependability of service.

Combustion Engineering-Superheater, Inc. has more than 60 years’ experience in producing steam generating and fuel burning equipment. It is a world leader in the manufacturing of power boilers.

### What guarantee or warranty do you get?

Every C-E HEATMASTER carries a *written* ten-year protection plan—assuring you of dependable service. There’s a one-year warranty on all parts. In addition, should the tank fail within the ten-year protection period, you get a complete new heater with a liberal mileage-plan allowance on the price of the new heater.



## Feature for Feature, You Can’t Beat a C-E HEATMASTER





### HEATMASTER Electric Automatic Water Heater

Table Top Model, Series T, available in 40 gallon capacity. Provides over four square feet of table surface and is designed to fit into any standard kitchen arrangement. Made in accordance with NEMA standards. Approved and listed by Underwriters' Laboratories, Inc.



### HEATMASTER Gas Automatic Water Heater

Round Cabinet Model, Series H and LH, available in 20 and 30 gallon capacities. Series HM and HL (not illustrated) are furnished in 45, 60 and 75 gallon capacities. All models are supplied for Natural, Manufactured, or Liquefied Petroleum Gases. All models approved by The American Gas Association.



### HEATMASTER Electric Automatic Water Heater

Round Cabinet Model, Series HE, available in 20, 30, 40, 55, 60, 80 and 100 gallon capacities, with single or double heating elements. Made in accordance with NEMA standards. Approved and listed by Underwriters' Laboratories, Inc.



# Heatmaster

## AUTOMATIC WATER HEATERS

*Available in sizes and models  
to meet the requirements  
of your home*



## These are the **important** features in any water heater

**1**

### THE TANK

The tank is the heart—indeed, the life—of a water heater. HEATMASTER tanks are extra-thick steel, electric welded throughout and heavily bonded with zinc inside and out. At a working pressure rating of 127.5 pounds, each tank is water-tested to 300 pounds or more. You would expect this security, of course, from one of the world's largest boiler manufacturers.

Moreover, every HEATMASTER tank contains an "anodic" rod of magnesium, which resists rust and corrosion that might otherwise attack the walls of the tank. In short, with every HEATMASTER you get the double protection of zinc-bonded steel and corrosion-absorbing magnesium . . . at no extra cost.

**2**

### THE HEATING ELEMENT

In HEATMASTER Electric Models all heating elements are immersed *in the water* for full-heat and highest transfer efficiency. Wattages are designed to prolong life of the heater and to keep liming and scaling at a minimum.

In HEATMASTER Gas Models burner and mixer are one piece, with pilot mounted on the mixer for definite relationship to burner. Burner, mixer and pilot can be quickly and easily removed for adjustment or cleaning without special tools.

**3**

### INSULATION

Highest efficiency of operation obtained in both gas and electric models by the use of thick, non-settling insulation, scientifically applied to keep the heat *in the water*. Reduces heat loss for greater economy. Insulation completely surrounds tank to insure maximum insulating protection and thus saves on fuel cost.

**4**

### CONTROLS

HEATMASTER controls are a masterpiece of simplicity. On Electric Models the thermostat may be set to the temperature you desire and the heater turns itself on and off automatically without any attention on your part.

On HEATMASTER Gas Models controls are grouped outside for easy accessibility. Once the pilot is lit, it controls main burner automatically and if pilot goes out, main gas supply shuts off. For temperature selection, simply dial to desired setting.



Your plumbing and heating contractor can demonstrate these features and many more . . . he can show you how a C-E HEATMASTER will keep your home abundantly supplied with piping hot water, ready at the turn of the tap.

And when you select a HEATMASTER, you know that point for point, feature for feature, you're getting full value—and more—for your money. From the sleek, gleaming white jacket to the very heart of the HEATMASTER, every detail is guarded by C-E's 60-year reputation . . . your assurance of superior quality.



**Heatmaster**

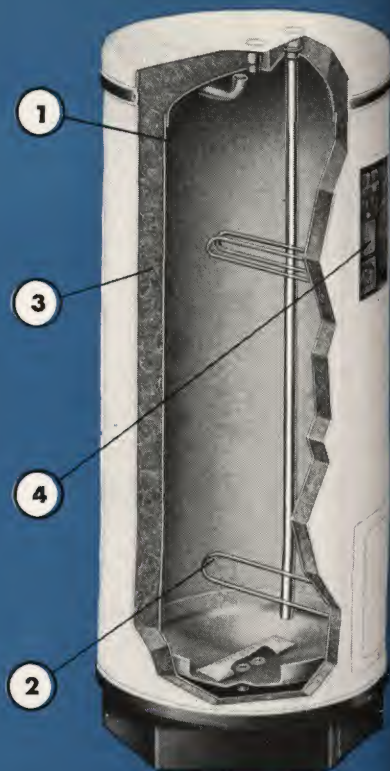
**AUTOMATIC  
WATER  
HEATERS**

A Product of

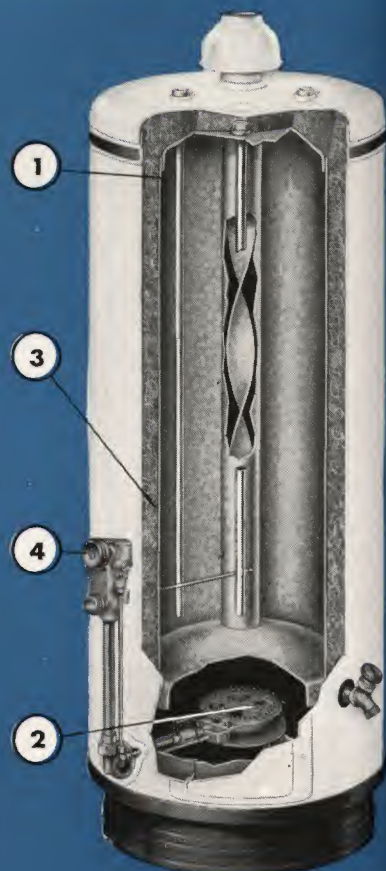
Water Heater, Range Boiler and Soil Pipe Dept.

**COMBUSTION ENGINEERING-SUPERHEATER, INC.**

P.O. Box 1749, Chattanooga 1, Tennessee



AUTOMATIC ELECTRIC WATER HEATER



AUTOMATIC GAS WATER HEATER

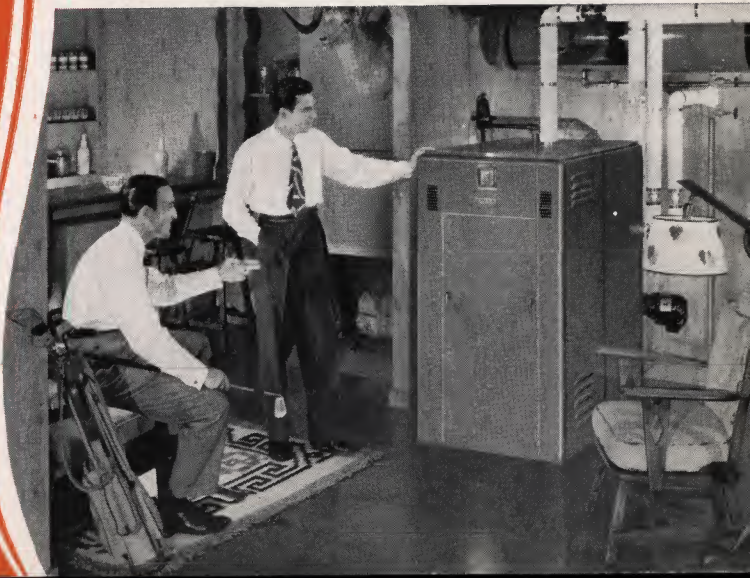


# quality plumbing and heating



EVERY HOME—FOR EVERY BUDGET

## CRANE





# CRANE

## quality plumbing and heating

### Crane plumbing

### Vitreous China

### Duraclay

### Porcelain enamel on cast iron

### Crane colored fixtures

### Crane heating

**N**O PART of the home contributes so much to the health, comfort and convenience of your family as the plumbing and heating systems. It is essential, therefore, that the equipment which comprises these vital systems be of the highest quality, the finest design. When you install equipment by Crane, you are assured lasting and satisfactory service.

Crane, the best-known name in plumbing, presents new fixtures freshly styled in such quality materials as vitreous china, *Duraclay* and porcelain enamel on cast iron. Here is a wide selection of bathroom groups, specialized fixtures and smart new kitchen sinks that will appeal to your taste—and your pocketbook. Such other equipment as dishwashers, disposal units and laundry tubs are also available.

Vitreous china is an all-ceramic material with a hard, gleaming surface that resists dirt and is easily cleaned. Crane ceramists have developed a superior vitreous china that assures the beauty and durability you want in plumbing fixtures.

Now available to home owners are plumbing fixtures of *Duraclay*—the exclusive Crane all-ceramic material that has been time-tested in hospital service. Possessing the same beautiful glazed finish as vitreous china, *Duraclay* will not stain, is acid-resisting, withstands thermal shock and resists abrasion.

Porcelain enamel on cast iron, used in Crane bathtubs, sinks and lavatories, consists of fine quality porcelain enamel fused to a sturdy cast iron base. The smooth, sanitary surface is attractive, easy to clean and easy to keep clean.

Crane fixtures—available in white and eight attractive pastel colors—Sun Tan, Persian Red, India Ivory, Pale Jade, Citrus Yellow, Sky Blue, French Grey and Shell Pink—permit a wide range of contrasting and complementary color schemes. These colors are fired into a glass-hard glaze. There is no possibility of fading.

Whatever your choice in heating—hot water, steam or warm air—or whatever your preference in fuel, Crane can provide the type and size of heating equipment you desire. You can also turn to Crane for radiators, convectors, winter air-conditioning units, oil burners, stokers, controls, water specialties, pipe, valves and fittings.



# Dial-ese

## an exclusive Crane feature

A flick of a finger and the faucet opens—a touch, and it closes—thanks to the exclusive Crane *Dial-ese* control which makes faucets operate as easily as the dial on your radio. This *Dial-ese* control is typical of the advanced engineering back of all Crane products. With *Dial-ese*, water pressure has been harnessed to aid in closing the faucet. The easy, finger-tip operation reduces wear and consequent dripping. A single standardized *Dial-ese* cartridge which is easily replaced, fits every Crane faucet. Your new Crane fixtures are all equipped with this exclusive Crane engineering development.

## temple

All the beauty and efficiency of modern design are evident in Crane *Temple* trim. *Temple* trim is striking with a chromium-plated finish that is easy to keep sparkling clean. Attractive lever style handles are furnished with *Temple* sink trim. *Temple* bath, shower and lavatory trim may be had with either lever or three-rib handles. Complete with efficient, finger-tip *Dial-ese* control, Crane *Temple* trim is the last word in style elegance and matches the beauty of new Crane fixtures.

## embassy

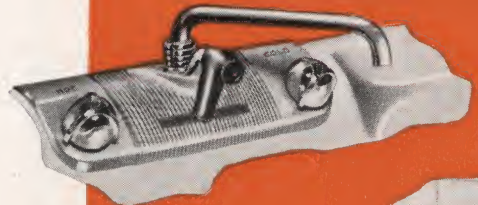
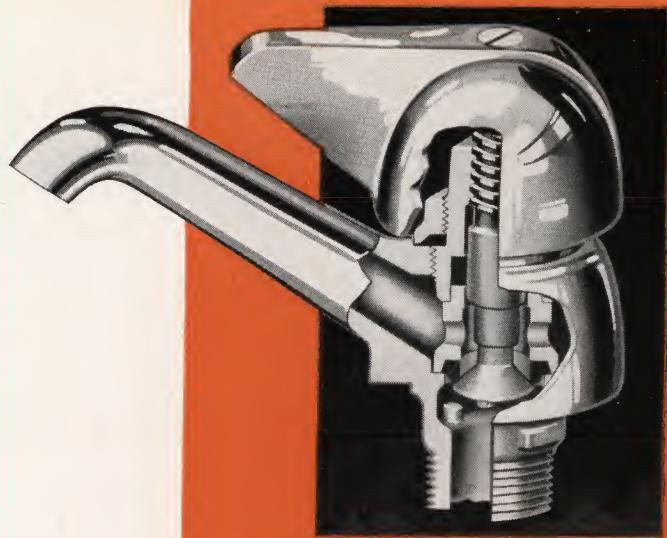
Exclusive on many new Crane fixtures, the smart Crane *Embassy* trim combines attractive styling with convenience. The easy-to-grasp wing-type handles and the swinging mixing spout are chromium plated. *Dial-ese* control, of course, is a featured part of Crane *Embassy* trim.

## whitney neu-rainier

Smiling modernism and new convenience keynote the complete new *Whitney* and *Neu-Rainier* trims. A featured part of many new Crane fixtures, *Whitney* and *Neu-Rainier* are solid cast brass—chromium-plated for beauty—and equipped with *Dial-ese* controls for efficiency.

## replacement trim

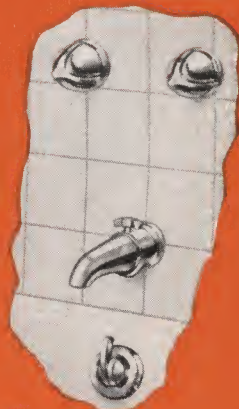
Also available in the Crane line are newly designed replacement faucets with *Dial-ese* control which may be easily installed in your present fixtures. Home owners are learning through experience that it is far more economical to replace worn-out, leaky faucets with new ones than to attempt repair work on existing facilities. Crane replacement trim will bring new efficiency to your bathtub, sink, lavatory and laundry tray.



8-65 Temple



8-10 Temple



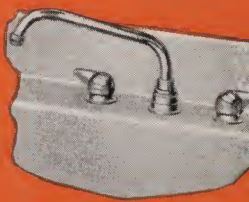
2-320 Temple



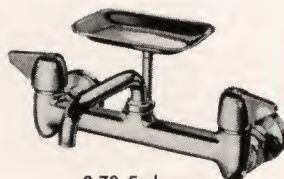
8-130 Whitney



8-125 Neu-Rainier



8-84 Embassy



8-72 Embassy



8-39 Vantage



8-85 Embassy



8-209 Vantage





Smart, graceful lines of the Diana and sparkling Temple trim are combined for lavatory perfection.

It's new, with that distinctive styling. The smart Mol-Tex seat cover completely encloses the top of the bowl.

Medical authorities recommend it and Crane provides the curved saddle seat to insure comfortable, correct posture.

Safe, comfortable corner seat is provided in addition to the wide rim seat at front. The flat bottom and low 16 in. height are added safety features.



## the diana group

Where style, comfort and completeness are first considerations, the beautifully matched fixtures of the *Diana* group satisfy even the most discriminating tastes.

**1-100-L Diana Lavatory** is styled in sparkling, easy-to-clean vitreous china. The smooth, flat top provides a large surface area surrounding the commodious semi-oval basin. Features *Temple* trim with *Dial-ese* controls, lever action *Securo* waste, chromium-plated legs and towel bars. The supply fitting may be furnished with either 3-rib handles as shown or lever style handles.

Sizes: 24 x 20 in., 27 x 21 in. and 33 x 22 in.

Basin: 18 x 11 in., 21 x 12 in. and 23 x 13 in.

**1-118 Drexel Dental Lavatory** is a modern aid to home hygiene. Styled in sparkling vitreous china, the *Drexel* dental lavatory has shelf back, round basin and sanitary china spout. Size: 14 x 14 in.

**2-50 Neuvogue Receptor Bathtub** is of glistening porcelain enamel on cast iron. Measuring only 48 inches long, it is particularly suitable for utilizing space of unusual proportions. Features a comfortable corner seat, flat bottom and low 16 in. height. *Temple* trim with *Dial-ese* controls, *Deviator* spout and water-saver shower, *Accesso* pop-up waste and overflow. The supply fitting may be furnished with either 3-rib handles as shown or lever style handles.

Size: 48 x 46 x 16 in. (right or left-hand outlet).

**3-100 Criterion Closet** is of sparkling, easy-to-clean vitreous china and features a modern, close-coupled design with elongated rim. The efficient siphon jet whirlpool action provides quiet, positive flushing. Seat and cover are of Mol-Tex, and the cover completely encloses the top of the bowl.

Size: Overall height—31½ in., width of tank—21 in., extension, wall to front—31 in.





## the marcia group

The Crane *Marcia* group consists of three beautifully matched fixtures that will bring new smartness and comfort to your bathroom. Gracefully styled in the modern manner with matching *Temple* trim.

**1-275-J Marcia Lavatory** . . . a smartly styled lavatory for counter-top installation. Made of sparkling white, easy-to-clean vitreous china. The semi-oval basin with the greatest width at the front provides ample room for washing hands, arms and face. The angle panel enhances the appearance of the lavatory and is completely practical because the *Temple* trim is right at the finger tips. *Dial-ese* Controls. *Securo* waste.

Size: 24 x 21 in.  
Basin: 17 x 10½ in.

**2-83 Criterion Bathtub** is constructed of smooth, easy-to-clean porcelain enamel on cast iron. It has a wide, comfortable rim seat at front, and a low 16 in. height and flat bottom for safety and convenience. The *Criterion* tub also has a sloped back for maximum bathing comfort. Features *Temple* trim with *Dial-ese* controls, *Deviator* spout and water-over shower, *Accesso* pop-up waste and overflow. The supply fitting may be furnished with either 3-rib handles as shown or lever style handles.

Sizes: 60 x 32½ x 16 in. and 66 x 32½ x 16 in.  
(right or left-hand outler)

**3-101 Criterion Closet** is made of smooth, easy-to-clean vitreous china and features a modern, close-coupled design with elongated rim. The efficient siphon jet whirlpool action provides quiet, positive flushing. The smart, correct posture *Mol-Tex* seat and cover add a note of distinctive styling.

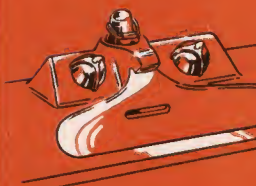
Size: Overall height—31¾ in., width of tank—21 in., extension, wall to front—31 in.



Here is new and different styling for the modern home. Note the smart *Mol-Tex* seat and cover.



The *Criterion* tub is designed for real bathing comfort with its sloped back, flat bottom and comfortable rim seat.



The smart, graceful lines of the lavatory, and the *Dial-ese* controls that turn with a finger tip's pressure add up to lavatory perfection.



The curved saddle seat, recommended by medical authorities, assures comfortable, correct posture.





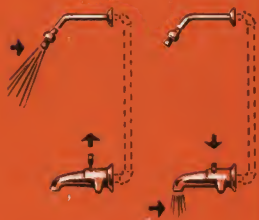
Whirlpool jet action makes for quiet, effective flushing. A deep water seal assures maximum sanitation.



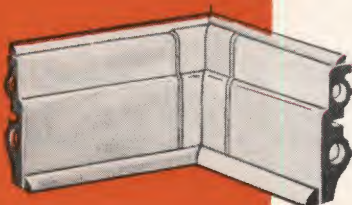
Recessed angle trim panel . . . integral china spout and flat shelf back add to bathroom convenience.



Turn on water for tub. For shower, just lift Deviator knob. There's no inadvertent dousing because when shower is shut off, water is again directed to spout.



Crane Radiant Baseboard Heating is ideal for the modern bathroom you're planning. Developed by Crane, this new method of heating distributes heat more evenly; floor level temperatures are nearer those at ceiling.



## the drexel group

The gracefully tailored lines of the *Drexel* group will impart functional beauty to your bathroom. The commodious fixtures, the sparkling chromium-plated *Temple* trim, the attention to design perfection assure discriminating home owners the comfort, convenience and satisfaction they desire.

**1-110-J Drexel Lavatory** is made of sparkling, easy-to-clean vitreous china. It features an integral china spout, large semi-oval basin, raised shelf back and a handy soap depression. The *Temple* trim with *Dial-ese* controls is mounted on a recessed angle panel. Quick draining is assured with the lever action *Securo* waste. The *Drexel* lavatory has chromium-plated legs and towel bars.

Sizes: 22 x 18 in. and 27 x 21 in.

Basin: 17 x 10½ in. and 21 x 12 in.

**2-83 Criterion Bathtub** is constructed of smooth porcelain enamel on cast iron that is easy to clean and easy to keep clean. It has a wide, comfortable rim seat, a flat bottom and low 16 in. height for safety and convenience. Features *Temple* trim with *Dial-ese* controls, *Deviator* spout, water-saver shower, *Accesso* pop-up waste and overflow. The supply fitting may be furnished with either 3-rib handles as shown or lever style handles.

Sizes: 60 x 32½ x 16 in. and 66 x 32½ x 16 in. (right or left hand outlet)

**3-120 Drexel Closet** is smartly styled in gleaming vitreous china. This modern, close-coupled closet is available in either regular or elongated rim. The efficient, whirlpool jet action of the *Drexel* assures quick, thorough flushing. White sheet covered seat and cover. For elongated specify 3-121 *Drexel*.

Sizes: Overall height—30 in., width of tank—21¾ in., extension to front—regular rim, 28 in., elongated rim, 30 in.





## the oxford group

Modern in design, the *Oxford Group* is a splendid example of bathroom fixture styling to meet the moderate budget. The panel motif reflected in all three fixtures creates a pleasing, unified appearance, and the striking chromium-plated trim adds beauty and practicability.

**225-E Oxford Lavatory** is made of bright, easily cleaned vitreous china. It has a large, rectangular basin, molded-in soap depression and convenient shelf back. Chromium-plated trim with *Dial-ese* controls and direct lift waste are mounted on a recessed angle panel. The *Oxford* lavatory is equipped with chromium-plated legs and towel bars. Slant end style available.

**Sizes:** 19 x 17 in. and 20 x 14 in.; **Slant end:** 26 x 14 in.

**Basin:** 14 x 11 in. and 15 x 9 in.; **Basin:** 17 1/4 x 9 in.

**2-126 Oxford Recess Bathtub** is constructed of acid-resisting *Duraclay*, the exclusive Crane vitreous glazed earthenware material that has been tested in hospital service. Available in either recess or corner design, the *Oxford* has a flat bottom and low 14-in. height for safety and convenience. There is also a non-splash rim which serves as safety handhold. Chromium-plated trim with *Dial-ese* controls, *Deviator* spout, *Accesso* pop-up waste and overflow. For corner design, specify 2-110 *Oxford*.

**Sizes:** 54 x 27 x 14 in. and 60 x 27 x 14 in. (right or left-hand outlet).

**Corner Size:** 60 x 27 x 14 in. (right or left-hand outlet).

**60** slope at head end of 54 in. size.

**2-140 Oxford Closet** is made of smooth, gleaming vitreous china. Features a modern close-coupled design and quiet, efficient whirlpool jet action. White sheet covered seat and cover.

**Size:** Overall height—28 1/2 in., width of tank—21 3/4 in., extension, wall to front—27 1/2 in.



Close-coupled construction of tank and bowl adds to the handsome appearance and efficient operation.



Convenient shelf back for toilet articles. Recessed angle trim panel. Large, comfortable rectangular basin.



There's maximum bathing area with the straight sides . . . safety with the flat bottom. Non-splash rim serves as safety handhold.

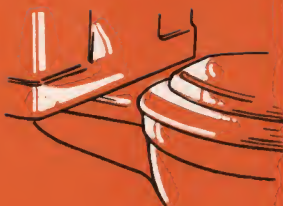


The Crane Compac Radiator is another space-saving answer to the bathroom heating problem. Although requiring minimum space, there is no sacrifice in heat output. It may be recessed into wall if desired.

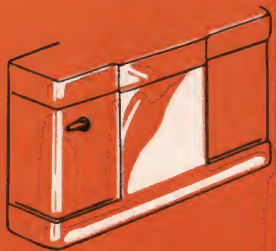




The close-coupled tank and bowl make a neat appearance. May be installed away from wall, leaving space for cleaning.



Distinctive design of Crane panel on the lavatory, bathtub and toilet gives grace and charm to each fixture and harmoniously relates the three fixtures in a smartly matched group.



As an alternate lavatory you may prefer the 1-355-E Oxlee. Compactly styled in vitreous china, it provides a generous size basin, molded-in soap depression and chromium-plated trim with chain and stopper, Dial-ese controls mounted on angle panel.



## the neuday group

The fixtures of the *Neuday* group present a modern simplicity, a clean-cut styling that make them favorites for small and medium-sized homes. The sparkling finish of the fixtures, the striking chromium-plated trim and the built-in Crane quality assure service and complete satisfaction.

**1-460-E Neuday Lavatory** is constructed of attractive porcelain enamel on cast iron and possesses a smooth, easy-to-clean surface. You will find the convenient shelf back for toilet articles, the molded-in soap depression and the generous sized rectangular basin. Chromium-plated trim with *Dial-ese* controls and direct lift waste are mounted on a beveled angle panel. The *Neuday* is also equipped with chromium-plated bars. May also be supplied with chromium-plated legs as 1-455-E *Neuday*.

Sizes: 19 x 17 in. and 24 x 18 in.

Basin: 15½ x 10½ in. and 16 x 11 in.

**2-97 Neuday Recess Bathtub** is of smooth, easy-to-clean porcelain enamel on cast iron. It has a flat bottom for safety, and the low 11 in. height makes stepping in and out easy. Equipped with glistening chromium-plated trim with *Dial-ese* controls, *Deviator* spout and water-saving shower, pop-up waste and overflow.

Sizes: 54 x 30½ x 14 in. and 60 x 30½ x 14 in. (right or left-hand outlet). No slope at head end of 54 in. size.

**3-160 Neuday Closet** is attractive in appearance and efficient in operation. Made of sparkling, vitreous china that is easy to clean and easy to keep clean. The quiet, self-draining jet gives quick, positive flush. Equipped with white sprayed seat and cover.

Size: Overall height—28¾ in., width of tank—21¾ in., extension, front to front—27¼ in.





## the lahoma group

Where compactness is a "must," the *Laboma* group is the space-saving answer. Because of the unique *Laboma* Receptor Bath which measures only 42 by 31 inches, a complete bathroom can be installed in space measuring only 5 feet 8 inches by 6 feet 8 inches. The *Laboma* group is not only ideal for small homes but for larger homes where an additional bathroom is desired.

**1133 Lahoma Receptor Bath** is made of gleaming, easy-to-clean Duracloy, the exclusive Crane vitreous glazed earthenware material that withstands thermal shock, defies abrasion and resists action of household acids. Requiring minimum space for installation, the *Laboma* Receptor Bath provides facilities for foot, sponge or shower bathing. It has a comfortable corner seat, non-splash rim and features a flat bottom and low 12-inch height for safety and easy access. Chromium-plated overflow supply and shower fitting with *Dial-ese* controls. Pop-up waste and overflow. Available in right or left-hand outlet.

**Size:** 31 in wide x 42 in. long x 12 in. high.

**1295-C Yorkshire Lavatory** is an attractively styled vitreous china lavatory with a 2 in. high shelf back and semi-oval basin. Splash lip and soap depression are added features. Chromium-plated trim with *Dial-ese* controls and direct lift waste. Chromium-plated legs.

**Size:** 20 x 18 in. and 18 x 15 in.

**Size:** 15½ x 11¼ in. and 14 x 8½ in.

**1140 Oxford Closet** is an ideal fixture to complete the compact *Laboma* group. Modern close-coupled design in gleaming vitreous china. Efficient whirlpool action bowl with self-draining jet. Solid plastic seat.

**Size:** Overall height—28¾ in., width of tank—21¼ in., extension, wall to front—27½ in.

It is an ideal receptor for comfortable shower bathing with its low height for easy access and flat bottom for safety.



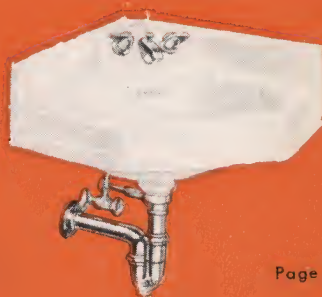
The *Lahoma* Receptor Bath has a spacious corner seat for comfortable foot, sponge or shower bathing. Non-splash rim also serves as safety handhold.



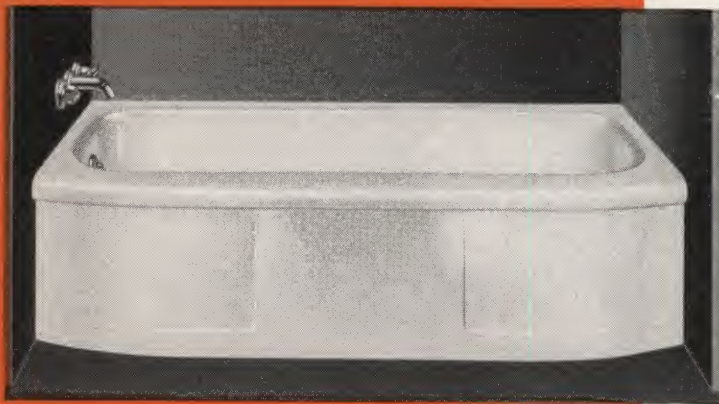
The low 12-inch height and smooth rounded corners make the *Lahoma* Receptor Bath handy and safe for tub-bathing children.



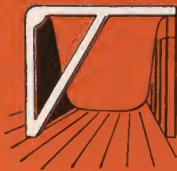
The 1-370-E Cornate Corner Lavatory is another space-saving lavatory of modern design. Constructed of gleaming vitreous china with beveled panel back. Has chromium-plated trim with *Dial-ese* controls and direct lift waste.







The hard porcelain enamel surface cleans easily.



Sturdily constructed of heavy-gauge steel.



Concealed wallguard protects against water seepage.

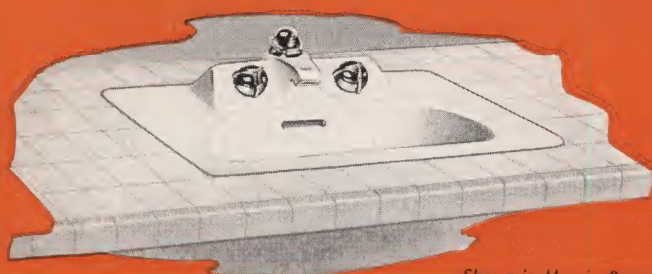
## the ohio bathtub

The Crane *Ohio* bathtub is ideal for the home where budgets must be carefully watched. Although moderately priced, this quality constructed bathtub will provide years of service. The 5' length assures generous bathing area, and the end is sloped for complete bathing comfort.

2-178 Crane *Ohio* Bathtub is of formed metal porcelain enameled construction with a hard, acid-resisting surface. Handsomely styled with distinctive paneling, the Crane *Ohio* bathtub will go well with any of our companion Crane fixtures illustrated in this book. 15" inch height provides easy access. A concealed wallguard is also featured to prevent water seepage around the rim of the tub. Equipped with chromium-plated trim with *Dial-ese* controls and connected waste and overflow with chain and stopper.

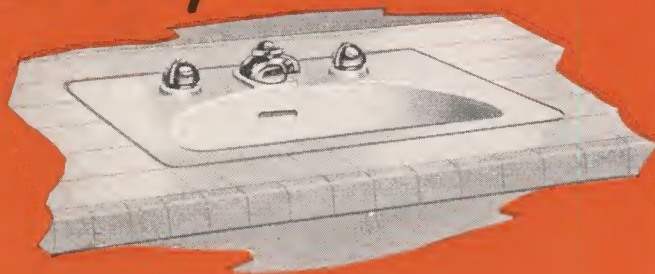
Size: 60 x 32½ x 15½ in. (right or left-hand outlet)

## the marcia

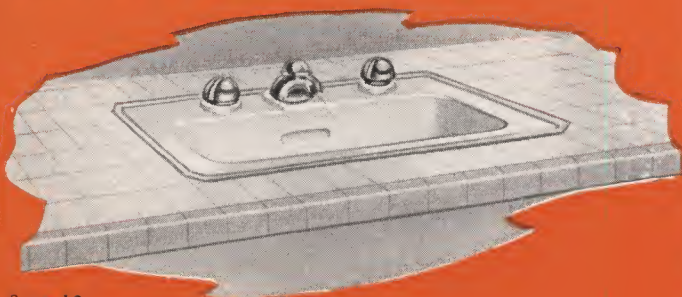


Shown in Marcia Room

## the elayne



## the westland



## counter-top lavatories

Here is a new approach to bathroom styling—the Crane Counter-top Lavatory. Each of these three lavatories is designed to fit into a counter-top which may be of tile, linoleum, glass, formica, wood or other materials. Besides permitting interesting bathroom styling, the counter-top lavatory is extremely practical. Two lavatories may be built into the counter-top to provide greater utility, and a dressing table may easily be added. And the extra storage space which can be provided below the counter-top will prove a boon indeed.

1-275-J *Marcia* counter-top lavatory... a smartly styled lavatory made of gleaming vitreous china. The semi-oval basin with the width at front provides ample room for washing hands, arms and face. Designed with an angle panel which places the supply fixture in a convenient position. *Temple* trim with *Dial-ese* controls and *Securo* waste. Size 24 x 21 in. Basin 17 x 10½ in.

1-270-L *Elayne* counter-top lavatory of gleaming, easy-to-clean vitreous china. Has extra large semi-oval basin. *Temple* trim with *Dial-ese* controls and *Securo* waste. Size 27 x 20 in. Basin 21 x 11 in. Supply fitting may be furnished with either 3-rib handles as shown or with lever style handles.

1-280-L *Westland* counter-top, rectangular basin lavatory of gleaming, easy-to-clean vitreous china. *Temple* trim with *Dial-ese* controls, lever-action *Securo* waste. Size 20 in. x 19 in. Basin 16 x 11 in. Supply fitting may be furnished with either 3-rib handles as shown or with lever style handles.



## showers and shower cabinets

2-450 Addenda—ideal for use with existing bathtubs—no need to break into walls. *Deviator* spout, *Refreshor* ball-joint shower head.

2-410 Rival—concealed pipe shower with mixing valve for tempered water. Has *Refreshor* ball-joint shower head.

2-370 Temple—two-valve shower, ideal for new homes or remodeling. Has *Dial-ese* Controls, *Economy* ball-joint shower head. May be supplied with either 3-rib handles as shown or lever style handles.

18-R Skipper—one of the several shower cabinets available in the Crane line. Bonderized galvanized steel construction with white baked enamel finish walls. Slip-proof precast *Stonetex* receptor, brass drain. *Crestmont* trim with *Dial-ese* controls.



9-221 ECONOMY    9-225 TEMPLE ECONOMY    9-230 REFRESHOR    9-231 REFRESHOR

9-221 Economy—ball-joint shower head. Saves water by directing all of the spray at the bather.  $\frac{3}{8}$  or  $\frac{1}{2}$ -inch female inlet.

9-225 Temple Economy—ball-joint shower head, another Crane water saver. Available in  $\frac{1}{2}$ -inch female inlet. Designed to match the Temple trim on Crane lavatories and bathtubs.

9-230 Refreshor—Easy-clean rigid shower head, economically priced. Has  $\frac{1}{2}$ -inch female inlet.

9-231 Refreshor—Easy-clean ball joint shower head with  $\frac{1}{2}$ -inch female inlet.

## bathroom accessories

Below are listed a few of the many bathroom accessories available in the complete Crane line.

Koro seal Shower Curtains . . . completely waterproofed . . . available in a wide variety of new, attractive patterns or in smart, plain colors with lovely, matching window drapes.

829 Tumbler and toothbrush holder for bathroom dress-up. Finished in shining chrome . . . holds 4 toothbrushes.

828 Tumbler Holder . . . chromium-plated . . . easily installed on invisible hanger.

SF-264 Medicine Cabinet of heavy gauge steel . . . neat rounded corners . . . 3 bulb-edged handy glass shelves . . . 16 x 24 in. beveled plate glass mirror . . . convenient razor blade slot . . . baked enamel finish. Wall opening:  $13\frac{3}{8}$  in. x  $18\frac{3}{8}$  in. x  $3\frac{3}{8}$  in.

4-103 Shower curtain rod . . . chromium-plated end flanges and . . . 36, 42, 62 and 68 in. lengths.

8330 Recessed soap dish . . . for tub alcove . . . includes assist . . . clear plastic tray for soap.

8812 Towel bar with chromium ends and smart octagon bar . . . invisible hangers . . . 12 in. to 36 in. lengths.

8305 Recessed paper holder . . . chromium-plated . . . has strong spring in round hanger bar to assure snug fit.



2-370 TEMPLE



2-450 ADDENDA



18-R SKIPPER



2-410 RIVAL



SF-264



829



4-103



828

8812



829



8330





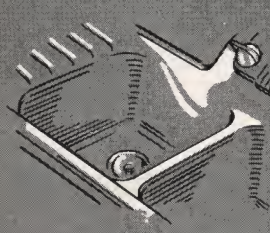
## the kitchen queen

Here is everything you could ask for in a kitchen sink—two drainboards—two basins—with styling that satisfies the requirements of the most modern kitchen. From the shining chromium-plated *Temple* trim to the gleaming, acid-resisting porcelain enamel finish, the *Kitchen Queen* is truly the aristocrat of modern kitchen sinks. And there is cabinet space galore. With this regal beauty installed in your kitchen, you can be sure that you have the finest and most modern double-basin double-drainboard sink available.

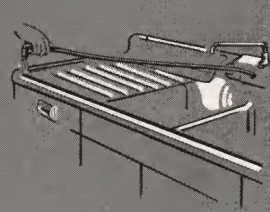
5-70 Kitchen Queen Sink is of one-piece porcelain enamel on cast iron construction. It features two large 8-inch deep basins and two depressed drainboards that prevent water from surging over the rim. In addition, the *Kitchen Queen* has a 4-inch high back, making it ideal for installation beneath a low window. A handy soap depression is also provided. Chromium-plated *Temple* supply fitting with lever handle *Dial-ene* controls, swinging spout and automatic thumb-action spray with retractable hose mounted on convex fixture panel. Equipped with *Receptol* washers and removable cup strainers. Outlet provided to accommodate a General Electric *Disposall*.

Crane cabinets are of white baked enamel on steel construction with double faced doors and drawers. The recessed toe board protects the cabinet from being scuffed and allows greater comfort for the user.

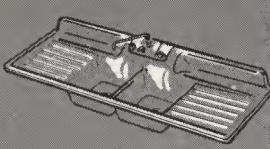
Size: 72 x 25¼ x 36 in. high.  
Basins: 18 x 16 x 8 in. deep.



Generous 8-inch deep basins provide ample room—one for washing dishes—the other for rinsing.



The retractable hose spray easily reaches the farthest corner of the sink. An aid to faster food preparation and dishwashing.



One-piece, porcelain enamel on cast iron construction with rounded corners eliminates dirt-catching cracks and crevices.





## the sunnyday

This is truly a modern sink designed especially for the home where a double drainboard, single basin sink is preferred. Beautifully styled in gleaming, easy-to-clean porcelain enamel on cast iron, and possessing many convenience features, the *Sunnyday* will help to make yours a real efficiency kitchen. Available in two sizes to allow plenty of opportunity for step-saving flexible kitchen arrangement. Shining chromium-plated trim, of course, with efficient *Dial-ese* controls.

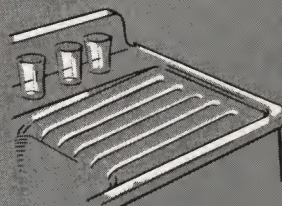
3-80 *Sunnyday* Sink is of one-piece porcelain enamel on cast iron construction with no crevices or water seepage points. Features a large 8-inch deep basin and two depressed drainboards that prevent water from surging over the rim. The 4-inch high back also helps to protect walls and fits perfectly under low windows. The striking chromium-plated trim with lever handle *Dial-ese* controls, swinging spout and automatic thumb-action spray with retractable hose that reaches all corners of the sink are mounted on a convex panel. The *Sunnyday* is also equipped with *Raspitol* hand-operated waste with removable cup strainer. Outlet is designed to accommodate General Electric *Disposall*.

Stylishly styled Crane cabinets are of white baked enamel on steel construction with double faced doors and drawers. The recessed toe board protects the cabinetry from being scuffed and allows greater comfort for the user.

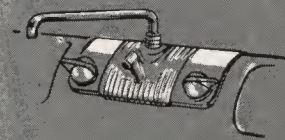
Size: 60 x 25 1/4 x 36 in. high and 54 x 25 1/4 x 36 in. high.

Size: 12 x 18 x 8 in. deep and 20 x 18 x 8 in. deep.

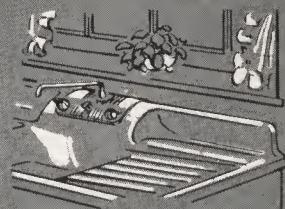
Depressed drainboards prevent water from surging over rim. There's a convenient ledge for glasses, too.



Temple control panel enhances appearance of the *Sunnyday* with its chromium-plated swinging spout, hose spray and *Dial-ese* controls.



A 4-inch high shelf back protects your wall and permits installation under low windows.

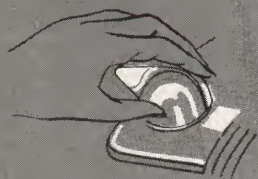




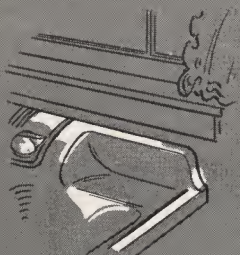


## the kitchen pride

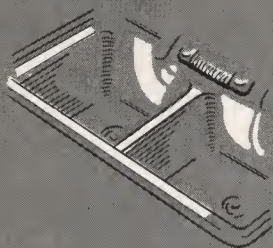
Dial-ese controls that turn as easily as the dial on your radio are an advantage found only on Crane sinks.



The smart 4-inch high back of the Kitchen Pride is not only attractive, but practical as well . . . protects your wall.



Two large 8-inch deep basins assure plenty of room for washing and rinsing dishes. The one-piece porcelain enamel finish is easy to keep clean.



Maximum utility and space-saving design characterize the smart double basin *Kitchen Pride* sink. Absence of drainboards makes this attractive sink ideal for the compact kitchen where a double basin sink is desired. In larger kitchens, too, the *Kitchen Pride* sink often proves a practical solution to individual planning problems. Neat and modern in every respect, the *Kitchen Pride* features shining chromium-plated *Temple* trim with efficient *Dial-ese* controls mounted on raised convex panel that is decorative as well as practical. For compact efficiency and smart styling, you'll want the *Kitchen Pride* in your kitchen.

5-75 *Kitchen Pride* Sink is one-piece construction of acid-resisting porcelain enamel on cast iron. Features two large 8-inch deep basins, soap depression and 4-inch high back to protect walls and permit installation under low windows. Equipped with sparkling chromium-plated *Temple* trim with lever handle *Dial-ese* controls, automatic thumb-action sprayer with retractable hose that reaches all corners of the sink, all mounted on a smart convex angle panel. *Receptol* wastes with removable cup strainers. Either outlet accommodates a General Electric *Disposall*.

Crane cabinet is of white baked enamel on steel construction with double faced doors and drawers. The recessed toe board extending along the entire base protects the cabinet from being scuffed and allows greater comfort for the user.

Size: 38 x 25¼ x 36 in. high.

Basins: 18 x 16 x 8 in. deep.





## the all-american

For the home owner who wants a counter-top kitchen arrangement with a flat rim sink, there is no substitute for the carefully styled Crane *All-American*. At home in either compact or roomy kitchens, this modern and attractive sink offers maximum flexibility to kitchen planners. Design advantages, unusual in counter-top sinks, include chromium-plated *Temple* trim with *Dial-ese* controls mounted on a smart convex panel, and a handy ledge and wall-protecting back. Install it in your choice of cabinet.

**5120 All-American Counter-top Sink** is one-piece construction of porcelain enamel on cast iron. It has a smooth, acid-resisting surface that is easily cleaned with a damp cloth, and there are no cracks or dirt-catching crevices. Features two large 8-inch deep basins and a 4-inch high back to save your walls and allow installation under low windows. Chromium-plated *Temple* trim with lever handle *Dial-ese* controls, swinging spout and automatic thumb-action spray with retractable hose that reaches all corners of sink are mounted on a smart convex angle panel. *Receptol* wastes and removable cup strainers. Outlets accommodate General Electric Disposal.

The flat rim along front and sides permits easy installation in counter-top. The Crane *All-American* may be installed in tile, linoleum or composition counter tops.

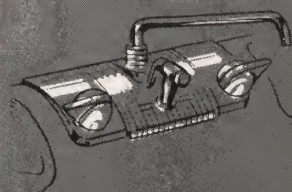
Size: 38 x 21 in.

Height: 17 x 14½ x 8 in. deep.

*Receptol* wastes have large cup strainer—easily removed and emptied.



Chromium-plated *Temple* trim with its smartly styled curved cover plate is mounted on a convex angle panel.



Full 4-inch high back and large 8-inch deep basins bring Crane top quality to counter-top sink installations.





# the sunnycrest and stewardess sinks

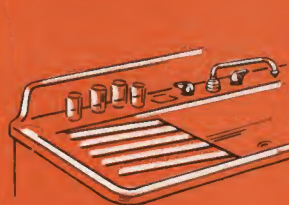
Here are two attractive, efficiency sinks designed for the budget-wise home—the *Sunnycrest* with a single basin and two drainboards, and the *Stewardess* with a single basin and a single drainboard. Both are constructed of high quality porcelain enamel on cast iron and are sparkling in appearance—easy to keep clean. The functional styling of both sinks includes convenient ledge, depressed drainboards, 4-inch high back and shining chromium-plated trim with *Dial-ese* controls and swinging spout. The modern Crane cabinets are of baked enamel on steel construction with double faced doors and drawers, and there is a recessed toe board to protect the cabinet from being scuffed.

**5-91 Sunnycrest Sink** is one-piece construction of acid-resisting porcelain enamel on cast iron. Features a single 8-inch deep basin and two depressed drainboards that keep water from surging over the rim, convenient ledge with soap depression and 4-inch high back to protect your walls. Equipped with smartly styled *Embassy* trim in chrome with *Dial-ese* controls and swinging spout. *Receptol* waste with removable cup strainer. Outlet accommodates General Electric *Disposall*.

Sizes: 60 x 22½ in. and 54 x 22½ in.  
Basins: 22½ x 15 in. and 20 x 15 in.

**5-98 Stewardess Sink** is one-piece construction of acid-resisting porcelain enamel on cast iron. Designed in the popular single basin, single drainboard style, the *Stewardess* also features a convenient ledge with soap depression, depressed drainboard, 8-inch deep basin, 4-inch high back and the smartly styled *Embassy* supply fitting with *Dial-ese* controls and swinging spout. *Receptol* waste with removable cup strainer. Outlet accommodates General Electric *Disposall*. Available in right or left-hand drainboard.

Size: 42 x 22½ in. Basin: 20 x 15 in.



Depressed drainboards and 4-inch high back.



Smart chromium-plated trim with *Dial-ese* controls.



One-piece porcelain enamel on cast iron.





# the homemaker

The *Homemaker* is a delightfully modern single basin, single drainboard sink possessing many convenience features. Crane quality throughout, it is of one-piece construction with a smooth, acid-resisting porcelain enamel finish that will add much to the attractiveness of your kitchen. Ideal for the small or medium-sized kitchen, the *Homemaker* features sparkling *Temple* trim with *Dial-ese* controls.

5-86 *Homemaker* Sink is of porcelain enamel on cast iron construction. The one-piece design eliminates dirt-catching crevices and the possibility of water seepage. Features a single drainboard and a single 8-inch deep basin with ledge, soap depression and 4-inch high back. The modern chromium-plated *Temple* trim with lever handle *Dial-ese* controls, swinging spout and thumb-action spray with retractable hose are mounted on a convex panel. *Receptol* waste with removable cup strainer. Outlet accommodates General Electric *Disposal*.

Crane cabinet is white baked enamel on steel construction with double faced doors and drawers. Recessed toe board protects both shoes and cabinet.

Size: 42 x 25¼ in. (right or left-hand drainboard)

Basin: 20 x 18 in.



The *Homemaker*, with all the outstanding features of larger Crane sinks, is particularly suitable for homes in which the emphasis is on compactness.

## flat rim sinks

5-160 Double Basin Flat Rim Sink of smooth, acid-resisting porcelain enamel on cast iron. Features two large 8-inch deep basins with *Receptol* wastes and removable strainers. Ideal for installation in linoleum or composition counter-top. Available in two sizes.

Size: 32 x 20 in. and 42 x 20 in.

5-111 Tuson Double Basin Flat Rim Sink is made of *Duradlay*, the exclusive Crane vitreous glazed earthenware material that has been time-tested in hospital service. Features two 8-inch basins, chromium-plated trim with *Dial-ese* controls and swinging spout mounted on extended back ledge, and *Receptol* wastes with removable cup strainers. Available in two sizes.

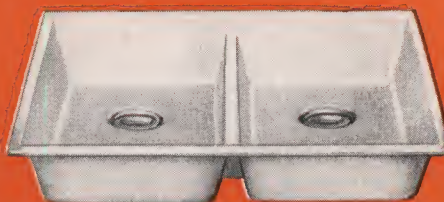
Sizes: 32 x 21 in. and 38 x 21 in.

5-131 Double Basin Flat Rim Sink is constructed of durable porcelain enamel on cast iron that is acid-resisting and easily cleaned. Features two 8-inch deep basins, shining chromium-plated trim with *Dial-ese* controls and swinging spout mounted on extended back ledge, and *Receptol* wastes with removable cup strainers.

Size: 32 x 21 in.

5-136 Single Basin Flat Rim Sink is constructed of durable porcelain enamel on cast iron. Like all other Crane counter-top sinks, this unit brings top quality to counter-top installations. Features a single 8-inch deep basin, chromium-plated trim with *Dial-ese* controls mounted on extended back ledge. Has *Receptol* waste with removable cup strainer. Available in two sizes.

Sizes: 24 x 21 in. and 30 x 21 in.



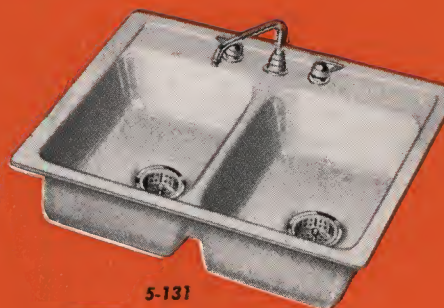
5-160



5-136



5-111



5-131



## General Electric

### SINK...DISHWASHER...DISPOSALL

**Electric Sink**—The General Electric Sink offers the ultimate in modern kitchen convenience, with built-in Electric Dishwasher, and a General Electric Disposall if desired. Compact and beautiful, it features a porcelain enameled top with chromium-plated faucet assembly. The cabinet is of heavy gauge steel construction, rigidly braced.

Size: 48 x 25 x 36 in. with 3½ in. back.

**Electric Dishwasher**—A fully automatic dishwasher which performs all of the functions of washing dishes, including pre-rinsing, washing, then double rinsing and raising the lid for the dishes to quickly air-dry. Unit built in heavy gauge, rust resisting steel cabinet, finished in baked-on white enamel. Unit also available without cabinet for counter-top installation.

Size: 24 x 25 x 36 in. high with 3½ in. back.

**Electric Disposall**—A modern electrical appliance for the immediate disposal of food waste. Quickly and efficiently shreds food waste into fine particles and flushes them away in a stream of cold water, with a whirling, scouring action. All Crane sinks are designed to accommodate the General Electric *Disposall*.



Electric Dishwasher Sink



Electric Dishwasher



Electric Disposall

## Laundry Tubs

**6-110 Two-Compartment Laundrette** is made of sparkling white, acid-resisting *Duraclay*, the exclusive Crane vitreous glazed earthenware material that has been time-tested in hospital service. Features two 12-inch deep compartments with an integral washboard in left-hand compartment, soap depression and black finished steel supporting frame with leveling screws. Equipped with shining chromium-plated trim with *Dial-ese* controls, swinging spout with hose end mounted on shelf back, and twin wastes with rubber stopper.

Sizes: 36 x 25 in. and 42 x 25 in.

**6-115 Single Compartment Laundrette** is also made of acid-resisting *Duraclay*. Features the same high quality Crane construction as the double compartment *Laundrette*, including 12-inch deep compartment with built-in washboard, black steel supporting frame with leveling screws, chromium-plated trim with *Dial-ese* controls, swinging spout with hose end mounted on shelf back, and waste with rubber stopper. May be installed as a single unit or with two compartment *Laundrette* for battery of three.

Size: 22 x 25 in.

**6-80 Combination Flat Rim Sink and Laundry Tub** is of porcelain enamel on cast iron construction. Has a 14-inch deep laundry tub and an 8-inch deep sink basin. Sink compartment has *Receptol* waste; laundry tub has rubber stopper. May be equipped with chromium-plated trim with *Dial-ese* controls.

Size: 42 x 20 in. Sink: 18½ x 17½ in. Tub: 18½ x 17½ in.



6-110



6-115



6-80





Crane-Line  
Selectric



Crane-Line  
Superior



Crane-Line  
Softenall

## Water heaters and softeners

The Crane-Line Selectric is a fully automatic water heater that will economically provide healthful hot water on a 24-hour-a-day schedule. Quality constructed throughout, the *Selectric* is also neatly styled to fit the scheme of the most modern home. *Selectric* thermostat automatically holds temperature desired, 100° to 190°. Made in 30, 40, 52, 66, 80 and 100 gallon capacities.

The Crane-Line Superior is an automatic gas water heater with the exclusive, patented *Mini-Miser* air intake which reduces heat loss. Thick, Fiberglas insulation completely encases sides, top and combustion chamber. The "custom tailored" steel tank is heavily galvanized for lasting service. The cold rolled steel outer jacket is finished in snowy white baked enamel for lasting beauty. Made in 20, 30 and 45 gallon capacities.

Crane-Line Softenall water conditioners soften the hardest water and also remove light sediment, iron and manganese. The zeolite employed has the highest capacity per salt regeneration and operates on low silica and acid or alkaline waters without injury to the zeolite. The brine tank is a combination of salt storage and brine measuring tank, with a full opening for easy filling with salt. Tanks made of heavy grade steel, electrically welded. The units are simply regenerated with three movements of the multi-port valve and with the brine valve conveniently located at the top of the brine tank. Salt tank capacities from 90 to 220 pounds.

*Your Crane dealer carries a complete line of water heaters and softeners for every home requirement.*



Crane-Line Basmor  
"2 WG" Gas Boiler



Crane-Line Basmor  
"25" Gas Boiler

## Gas Boilers

Crane-Line Basmor "2 WG" Boilers—With these new Crane-Line *Basmor* Boilers, the comforts and conveniences of a 100% automatic, gas fired heating system are now as practical for low-cost homes as for costly homes and big buildings. The "2 WG" is clean, odorless, quiet, efficient. Made in two models, Standard and DeLuxe, both come completely assembled, ready to connect to water, gas and electric lines. Amazingly compact, the "2 WG" Boilers measure approximately 36 inches high. For hot water systems only. The Deluxe Crane-Line Basmor Boiler is the same design as standard model illustrated but comes completely enclosed in a deluxe jacket for installation in finished basements, utility or living rooms.\*

Crane-Line Basmor "25" Gas-Fired Boilers—The utmost in heating luxury for average-sized to large homes is assured when a gas-fired Crane-Line *Basmor* Series "25" Boiler is installed. Any steam or hot water system built around this boiler is extremely clean, fast, efficient and flexible. Boiler is 100% automatic—rarely needs attention. Maintenance is negligible, installation is simple. The Series "25" Boiler is very saving of floor space and headroom, and is particularly suitable for any modern basement or utility room plan. The heavy metal jacket is attractively finished in baked-on green enamel, and is fully insulated with asbestos which surrounds the boiler.\*

*\*Bears American Gas Association seal of approval.*

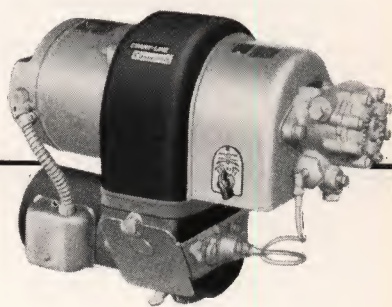


# Crane sixteen boiler

The CRANE SIXTEEN Boiler is designed for home owners who want the finest in oil heating—for it assures clean, uniform, automatic heat, a neater, more attractive basement, and years of trouble-free, fuel-saving performance. The CRANE SIXTEEN is a packaged, fully enclosed unit, complete with the efficient Crane-Line Conservoil Burner. The patented Crane sustained heat principle absorbs maximum heat units from fuel before heated gases are permitted to escape, thus providing maximum fuel economy.

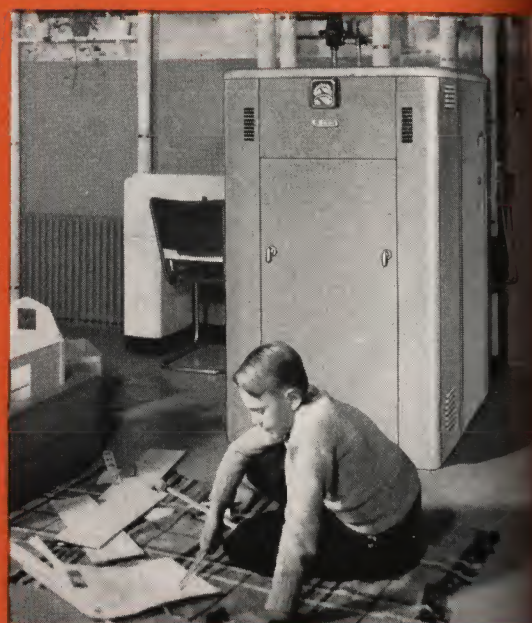
The CRANE SIXTEEN also has thick air cell asbestos insulation on front, top, side and rear, which is firmly attached to the jacket. This insulation prevents heat from escaping—the jacket is never too warm to touch.

Whether you plan to remodel your present heating system or are building a new home, the CRANE SIXTEEN will provide the last word in heating comfort and convenience.



The Crane-Line Conservoil Burner is distinguished by its floating flame which is entirely in suspension, enabling the boiler surfaces to absorb maximum heat. Burners and controls are conveniently accessible. Only moving part is the powerful, long-life motor that drives pump and noiseless fan.

- **Sustained Heat Design**—Gases rise to top of boiler, where they give up most of their heat, then are conveyed to bottom of boiler through flues between adjacent sections, then upward through the insulated smoke hood, where extra percentages of heat are absorbed. When burner is off, the light, hot gases are trapped in the top of the boiler—must transmit their heat before escape.
- **Heavy Cast Iron Construction** with precision-fitted sections.
- **Controlled Water Travel**—Patented baffles direct the flow of water over the hottest heating surfaces, counter-current to the gases of combustion—the ideal condition.
- **Pre-Cast Combustion Chamber** of factory-molded refractory and scientifically shaped to gain full efficiency from flame.
- **Large Observation Port** of tempered glass provided.
- **Water Heater** of either tankless or trombone tank type may be installed.
- **Packaged, Fully Enclosed Unit** complete with the efficient Crane-Line *Conservoil* Burner.







## Crane twenty boiler

Whatever you expect in a modern boiler you get in the CRANE TWENTY—efficient burning of coal, coke, oil or gas—trouble-free service, ease in cleaning and up-to-the-minute styling. The attractive design of the CRANE TWENTY makes it ideal for the modern basement or utility room. The jacket is of steel with a heavy coat of light green enamel baked on. Doors have black-satin finish. The non-heat handles remain cool to the touch.

Maximum heat absorption is assured in the CRANE TWENTY Boiler by its multiple flue construction which provides more ceiling surface directly over the flame. Then, too, the patented controlled water travel which directs the water over the hottest heating surfaces, scrubs away the insulating film of sluggish water that would otherwise reduce efficiency.

The CRANE TWENTY Boiler is suitable for hand, stoker, gas or oil-firing. The twelve-inch base gives a larger ashpit and permits easy conversion from hand to automatic firing after installation, if desired. In every way, the Crane TWENTY Boiler is an improved boiler for steam or hot water heating systems.



## Crane fourteen boiler

If you want economical, efficient heat—a boiler whose cost is well within the budget of small or inexpensive homes—consider the CRANE FOURTEEN Boiler. Compact in size, the FOURTEEN is neatly styled and will fit in well with the modernized basement or utility room.

The CRANE FOURTEEN Boiler can be placed on a wood floor without any special insulation because its water jacket completely surrounds the combustion chamber and ashpit. Because of the low return connection, installation of a gravity hot water system with the FOURTEEN on the first floor is practical—basement installation is not required. The wet base construction also makes maximum use of heat developed.

Fully insulated, this boiler is designed to burn solid fuels or oil economically. It may be installed for hand-firing and later changed over to stoker or oil-firing. It may also be equipped with an internal tank or tankless type water heater.



# Crane thirty boiler

The CRANE THIRTY Boiler is designed to heat buildings requiring up to 3,000 sq. ft. radiation for steam or 4,800 sq. ft. of radiation for hot water automatically fired. The high efficiency of CRANE THIRTY Boilers results from such design and construction features as corrugated, multiple pass flues, patented baffles for controlling water travel, multiple waterways, precision ground sections assuring close true fit; and large fuel capacity.

One handle is used for dumping and shaking—accidental dumping is prevented. Jacket is green baked enamel finish—heavily insulated. May be equipped with trombone type water heater.

# Crane forty boiler

Designed to heat buildings requiring up to 7,000 sq. ft. of radiation for steam or 11,200 sq. ft. of radiation for hot water when automatically fired. The CRANE FORTY burns coal or oil and may be fired manually or automatically.

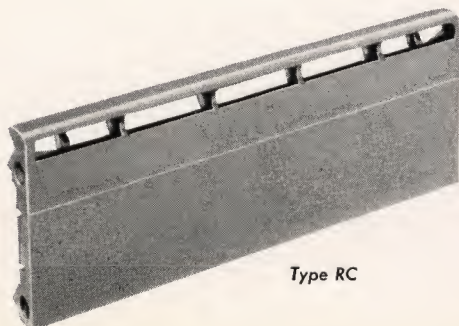
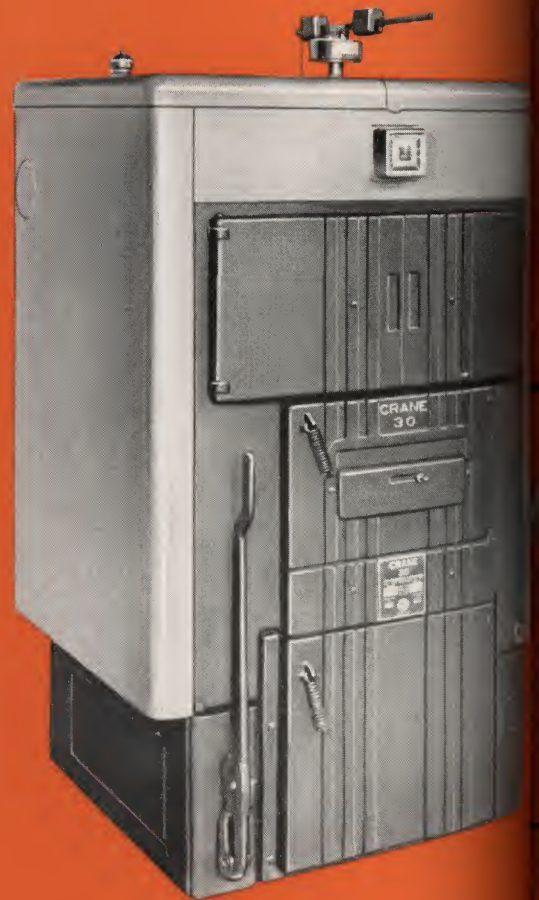
The CRANE FORTY has multiple finned flue passages, patented baffles for controlled water travel, multiple waterways, precision ground sections and large fuel capacity.

Heavily insulated jacket—baked-on green enamel finish.

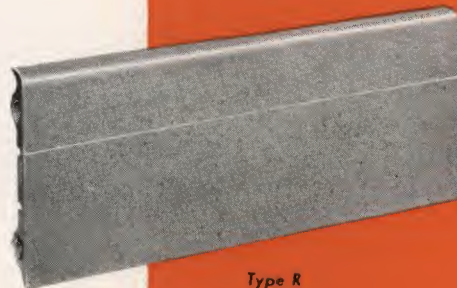
# Radiant baseboard panel heating

Radiant Baseboard Panels, developed by Crane, simply replace the wood baseboards along the outside walls of your rooms. The hot water or steam of your heating system passes through these panels as it does through your present radiators. Eliminates noticeable up-currents of warm air and across-the-floor currents of cooler air. Floor level temperatures are nearer those at ceiling. The panels look like a regular baseboard and may be finished in any color desired. For new construction or remodeling.

Two types are available—Type RC, providing a combination of radiant and convected heat, and Type R which provides radiant heat. Individual room temperature is regulated by means of a valve operated by a lever through the supply enclosure.



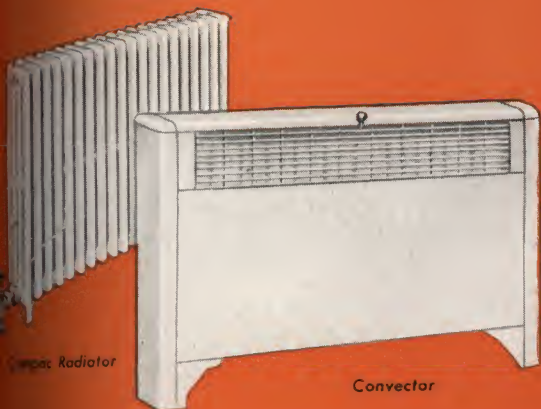
Type RC



Type R



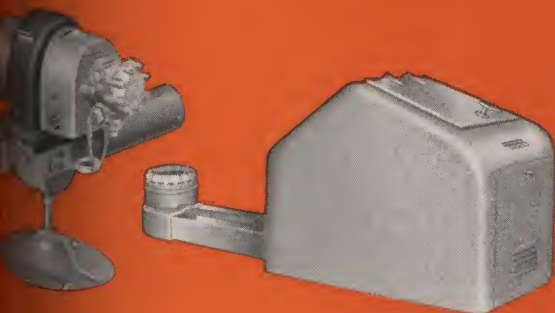




## Radiators and convectors

Crane Compac Radiators are slender in line and extremely efficient. Compactly styled, they require minimum floor space with no sacrifice in heat output. May be recessed in walls, if desired.

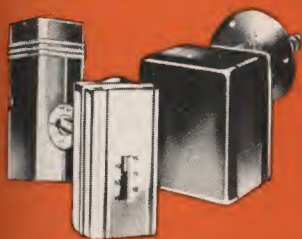
Convectors provide a quiet, continuous, self-circulating flow of gentle warmth through a room. Completely modern in appearance, they are available in free-standing or recessed models.



## Stokers and oil burners

Crane-Line Stokers are ideal for residential installation and are engineered to permit the use of cheaper grades of coal. By assuring proper coal combustion, they deliver more heat units from fuel consumed. Available in 21, 35 and 50-pound per hour capacities.

Crane-Line and Crane-Line "Conservoil" Burners permit economical conversion to carefree, automatic heating. Outstanding for their simple precision construction, these efficient oil burners are also engineered to provide exceptionally thorough absorption of heat. In capacities from 1 to 25 gallons per hour.



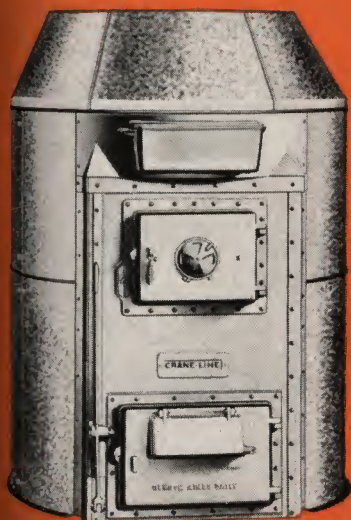
## Controls

The success of automatic heating systems is dependent upon accurate, long-lived controls designed for the particular service. Crane offers you controls manufactured by such leaders as Minneapolis-Honeywell and Penn Electric. These heating controls will operate instantly, efficiently with a minimum of attention.



## Valves and fittings

Important to the successful operation of every heating system are the valves and fittings. Crane provides *every item* that composes a steam or hot water system . . . pipe, valves and fittings that may be relied upon for long years of satisfactory, trouble-free service and operation.



## Furnaces

The family that prefers a warm air system will find that the Crane line offers just the type and capacity of furnace needed. Crane-Line furnaces are available with cast iron or steel radiators. All are of the latest design with proved engineering and construction features to assure abundant, economical heating. They may be manually or stoker fired for those who prefer coal. They can also be converted to automatic oil or gas firing at the time of installation or at some later date. These Crane-Line furnaces may be equipped with blowers for the forced circulation of air. Smartly jacketed models also available.



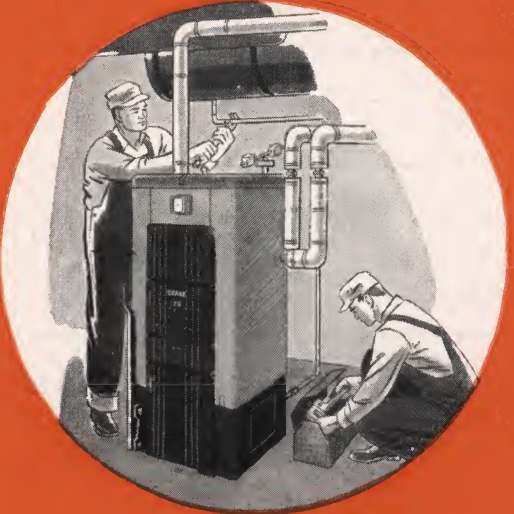
# the importance of piping...



THE fixtures you see in your bathroom or kitchen, the radiators in your rooms—the boiler in your basement are only half the plumbing and heating system in your home.

Behind the walls, beneath the floor are the vital supply lines—the piping that brings you fresh, clear water; the piping that carries away disease-breeding wastes; and the piping that keeps your radiators warm, your home comfortable.

Because so much depends on these vital supply lines, it is important that the material and installation be of the highest quality. To make sure the quality of your piping is as high as the Crane equipment you install, be sure all valves, fittings and pipe are Crane.



## See your Crane Dealer

Before you complete your plans, check with your Crane Dealer. He will be glad to help you in the selection of the proper plumbing and heating equipment for your home. His knowledge and skill plus the high quality of the Crane equipment he installs are your assurance that the entire plumbing and heating system in your home will provide satisfactory, trouble-free service for many years to come.

# CRANE

CRANE CO. • 836 SOUTH MICHIGAN AVENUE • CHICAGO 5, ILLINOIS





**Give your  
new home  
a bright start  
with furniture**

*by Drexel*

Living room, dining room, or bedroom, you solve short-space problems with compact, competent Precedent by Drexel. Choose from more than eighty suavely suitable pieces in silver elm and beechwood, or lacquered in up-to-the-minute decorator colors. You're sure to find the furniture you want, in the size you want, at the price you want . . . and many of these Precedent pieces give you dual-purpose versatility. Use them in one room now, and plan to shift them to another as your needs change.



Write today for a booklet about Precedent, containing helpful decorating ideas in full color illustrations. Send 25c in coin only to 2572 Huffman Road, Drexel, North Carolina.

WRITE TO US FOR NAME OF YOUR NEAREST DREXEL DEALER.



*Drexel*  
**FURNITURE  
COMPANY**

DREXEL, NORTH CAROLINA

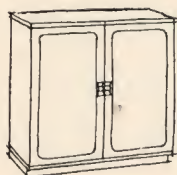
WORLD'S LARGEST MANUFACTURER OF QUALITY BEDROOM AND DINING ROOM FURNITURE



# Pick your favorites from more than



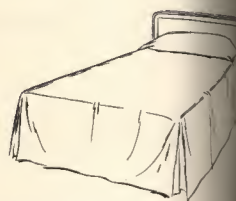
230-2D  
Drawer Unit—Bookshelf  
Height 32" Depth 15" Length 32"



Cabinet—203  
Depth 19" Width 32"  
Height 32"



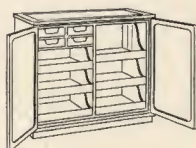
Chest—Night Stand—200  
Depth 18" Width 20"  
Height 29"



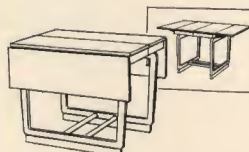
204-2—Bed  
4/6—3/3



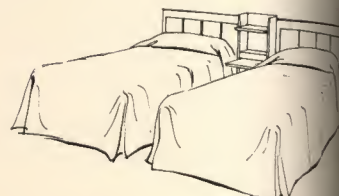
265-2—Mr. & Mrs. Dresser  
Height 32" Depth 19" Length 62"



205-4W  
Women's Utility Cabinet  
Height 32" Depth 19" Width 38"



215-4—Dropleaf Table  
Width 38" Length 30"  
Leaves raised Width 38"  
Length 54"  
Extended Length 66"

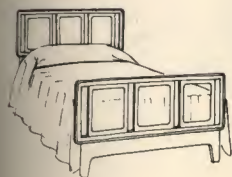


Bed—206 3/3 (night table—216)

WRITE TO US FOR NAME OF YOUR NEAREST DREXEL DEALER.



# eighty versatile **Precedent** pieces



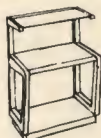
Bed—202 4/6 and 3/3



Drop Leaf Table—220  
Leaves Down Width 50"  
Length 26" Height 29"  
Leaves Up Width 50"  
Length 70" Height 29"

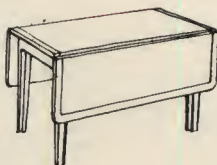


Chest—210 Depth 19"  
Width 32" Height 43"



End Table—247  
Depth 20" Width 20"  
Height 28"

D/L Extension Table—223  
Leaves Down Width 40"  
Length 28" Height 29"  
Leaves Up Width 40"  
Length 56" Height 29"  
Extended Width 40"  
Length 98" Height 29"



Dual Unit—211  
Depth 20" Width 66"  
Height 29"  
Mirror—211—Width 66"  
Height 32"



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NEAREST DREXEL DEALER.





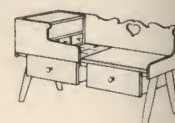
Ipswich Sofa



Danbury Wing Chair



Randolph Table  
Diameter 23" Height 27"



Cobbler's Bench  
Length 41" Width 18"  
Height 22"

AMERICAN  
TRADITIONAL

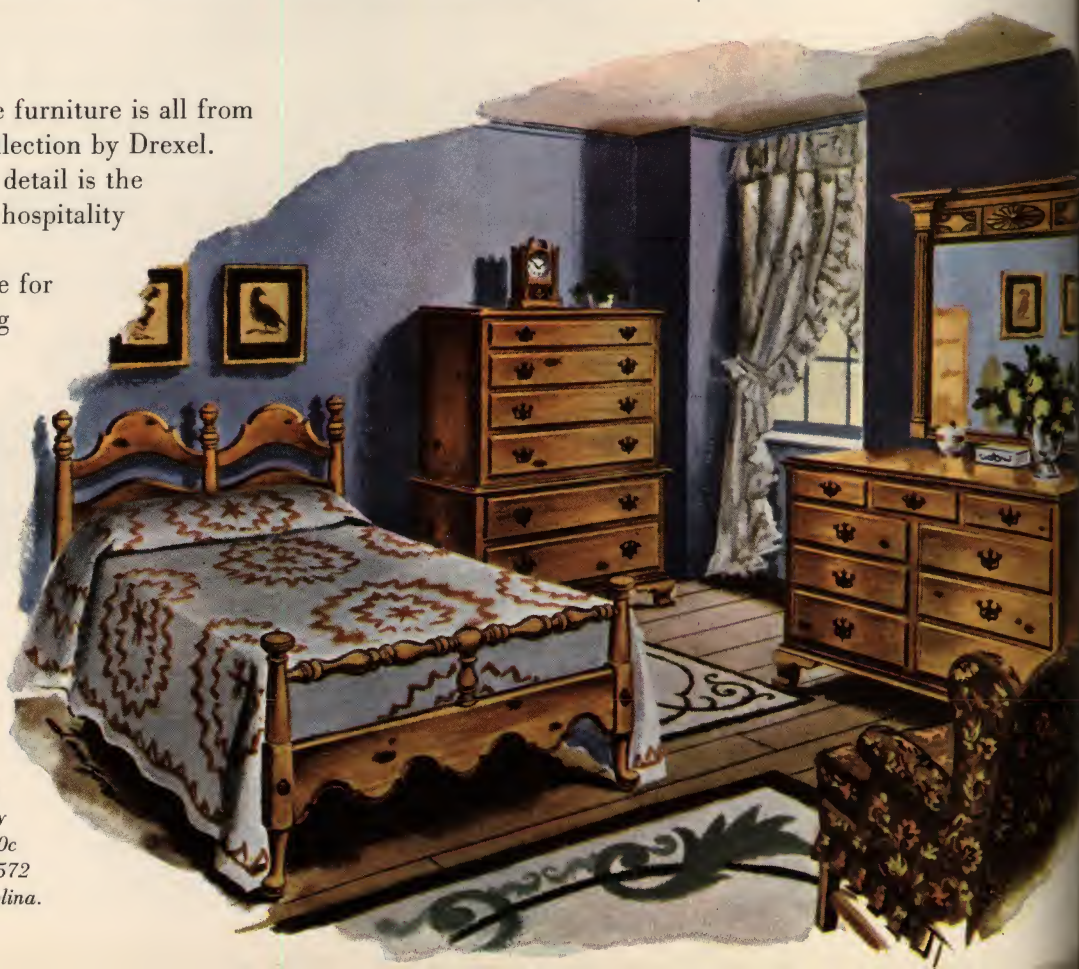
... answers your wishes for informal living...

Come in and rest awhile. The furniture is all from the American Traditional Collection by Drexel. Captured for you in truthful detail is the warmth that made American hospitality famous.

Here's open-stock furniture for your living room, your dining room, and your bedrooms —each piece with a proud historical background. Here's furniture at a price so modest you'll never believe it.



There's a comprehensive booklet in full color about American Traditional, showing you many room scenes and every one of the more than forty American Traditional pieces. Send 10c in coin only for your copy today, to 2572 Huffman Road, Drexel, North Carolina.







# Frame your dreams

**IN ROMANTIC TOURAINE**



Capture the charm of an Eighteenth Century French chateau with Touraine, by Drexel . . . Find new glamour for your bedroom in the precious Brittany finish, new color possibilities in its rich honey hue, and new delight for your eye in this lovely design, with the smoothly flowing, richly carved detail, so well loved by the courtiers of Louis XV.

Look for more than beauty in Touraine by Drexel. Look for all the cabinet-maker details which make furniture by Drexel the finest that craftsmanship can build—dovetailed, center-guided drawers that open with a feather touch, sturdy, three-ply dust-proofing, and gleaming, hand-rubbed finish.

The open-stock Touraine Collection is equally beautiful in the new lacquer finish—creamy antique white with silver grey and gold accents hand-applied along the beading. Whether you prefer Touraine in the Brittany finish or in antique lacquer, you will gain thrilling new decorating effects.



Poudre—1078-1  
Width 42" Depth 20"  
Height 29"



Commode—1076-1  
Width 36" Depth 19"  
Height 32"



Chest Desk—1079-1  
Width 27" Depth 17"  
Height 38"

WRITE TO US FOR NAME OF YOUR NEAREST DREXEL DEALER.

Write today for an interesting booklet showing Touraine and other Drexel designs—send 10c in coin to 2572 Huffman Road, Drexel, North Carolina.



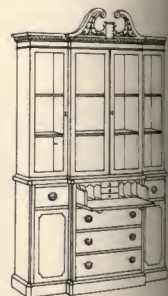




## Starting out...



Corner China, Bow Front—352  
Depth 22" Width 36" Height 70"



Breakfront Secretary—351  
Depth 16" Width 60" Height 81"



Credenza Buffet—353  
Depth 21" Width 54"  
Height 35"

3

## Travis Court helps you blend new beauty with old

Open-stock is important when you're just starting out—you buy a little now and add more later. Later on, blend the beauty of new Travis Court pieces with the beauty of your original Travis Court selections . . .

Just the way this young couple built around an inherited

nucleus, adding first a cozy Pembroke table and a Handi-Tray Server with a removable hostess tray at the top and a Pacific Silver Cloth lined tray in the drawer below (1). In the second picture they have added a

Travis Court hutch china deck to the server (planning to use this duo as a bookcase at some later date) (2) . . .

By the time they finish their plan on progress, everything has been put to work in other parts of the house, and their dining room includes a bow-fronted breakfront, a matching bow-fronted buffet, and a spade-foot table (3).

All of these pieces are from the open-stock Travis Court Collection, all are carefully-matched mahogany on selected cabinet woods, all are lovingly hand-rubbed to a soft, warm sheen, and all bear the "by Drexel" brandmark, your proof of fine craftsmanship.



1



2

Write for the Travis Court booklet, 12 pages in full color, and illustrations with dimensions of more than 50 pieces. Send 10c in coin only to 2572 Huffman Road, Drexel, North Carolina.



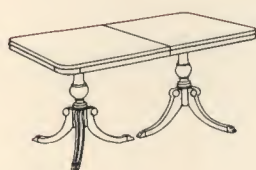
WRITE TO US FOR NAME OF YOUR NEAREST DREXEL DEALER.



# Doing over...Filling in...



TRAVIS COURT FITS YOUR NEEDS AND YOUR FLOOR PLAN



Extension Table—351-38  
Closed Width 42" Length 62"  
Extended Width 42" Length 98"



Regular China—350  
Depth 16" Width 36"  
Height 72"



Serving Table—350  
Leaves Down Depth 19"  
Length 38" Height 34"  
Leaves Up Depth 19"  
Length 58" Height 34"



Drop-Leaf Extension Table—311  
Leaves Down Width 38" Length 24"  
Leaves Up Width 38" Length 54"  
Leaves Up Extended Width 38" Length 66"

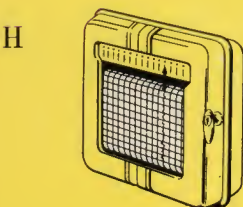
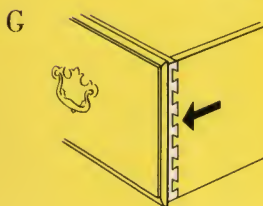
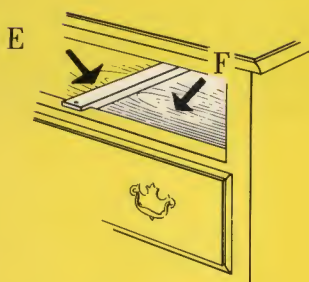
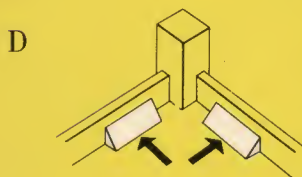
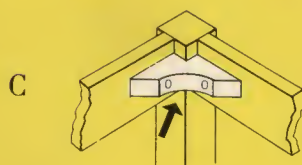
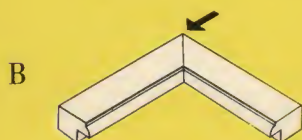
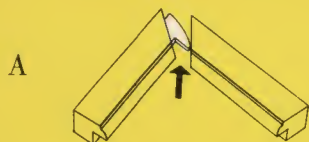
WRITE TO US FOR NAME OF YOUR NEAREST DREXEL DEALER.



## THE DREXEL WORKMEN

It is impossible to train a man to be a furniture craftsman, if he lacks the love of fine woods, fine design, and careful workmanship. Without these, he is little more than a carpenter.

The Drexel craftsmen are raised in the tradition of fine workmanship. Many of them are following in their fathers' footsteps. All serve long, tireless apprenticeships. Those who lovingly finger an unfinished piece as they pass, who spend painstaking hours fitting drawers so that they slide smoothly yet fit snugly, who hand-rub mellow finish to a satiny glow—these and many others like them are the true furniture craftsmen. They have all worked together to produce this masterpiece in wood.



When the furniture you buy bears this brandmark



you are sure of quality and value

- A — This illustration shows a mitered joint such as you find in the corner of a cabinet door. Notice how carefully the arrowhead spline fits into the grooves.
- B — And now the finished joint after it is fitted and glued. It is impossible to see the powerful hidden strength on the smooth outside surface.
- C — Corner block. This is an important strengthening feature in Drexel chair construction. The corners where greatest strain comes are fitted with solid triangular shaped blocks. To this, added strength is gained by screws.
- D — Glue blocks. In all Drexel furniture you will find large, strong, well-glued blocks spaced frequently enough to give strong, lasting support.
- E — In the bottoms of all Drexel drawers you'll find center drawer guides skillfully fitted and screwed in place to assure ease of operation.
- F — All Drexel cabinets are equipped with three-ply dust-proof panels beneath all drawers.
- G — A sign of fine craftsmanship is the use of dove-tailed joints glued securely in place. A joint thus made is stronger and more dependable than one made with nails.
- H — All the lumber is dried in scientifically operated kilns, under the constant supervision of skilled technicians, which insures furniture by Drexel from warping, splitting or cracking.



WORLD'S LARGEST MANUFACTURER OF QUALITY BEDROOM AND DINING ROOM FURNITURE





Beauty Bonded  
**FORMICA**  
Reg. U. S. Pat. Off.  
at Home with People  
at Work in Industry

THE STORY OF Beauty Bonded **FORMICA**  
*at Home with People!*





# OPEN FORMICA INSPECTION

Mother had a tough week. Dad no sooner started the car for their Sunday afternoon ride than she fell asleep.

In her dreams, the car pulled up in front of a model house.

"Where are we?" she asked.

"This," said her dream tour guide, "is a home where Beauty Bonded Formica makes living more enjoyable for everybody in the family."

"Formica?" she questioned. "What is this Formica?"

"Formica," her guide replied, "is a tough, colorful plastic laminate. It is the ideal surfacing material. Here, for example, in the living room, you'll find it on the top surface of the writing desk, the coffee and occasional tables, and the entire mantelpiece."

"Why?" Mother asked.

"The obvious reasons are Formica's great beauty and color possibilities. But here are other advantages every bit as important: Formica never needs to be painted or re-finished. It is unharmed by spilled drinks. Its smooth, hard surface cleans with a damp cloth. Treatment that would scratch or mar most surfaces never fazes Formica. You know Formica is the material that has been used on many beautiful bar tops and restaurant table tops for more than a quarter of a century.

"In the bedroom, too, the furniture tops are all Formica. Here, as in the living room, it looks just like any fine wood, but it has all the plus features of this amazing material. Night tables and dresser tops never need protective glass plates.





Of course, the kitchen is probably the place where Formica gets its toughest workout. Formica's resistance to boiling water, fruit acids and cleaning alkalies makes it ideal for work surfaces on cabinet tops and around the sink. It's excellent wall panels, too. The window sill is another example of how Formica combines beauty with utility. And let's not overlook the built-in Formica dinette . . . so practical, so colorful, so easy to clean and so clean!



"Now for the bathroom," said the guide, opening another door. "That cheerful unit with the wash basin is a Formica Vanitory. It offers the biggest improvement in design and beauty since bathrooms moved indoors. A colorful vanity and lavatory, all in one compact unit. And the walls are Formica, too—Formica Beautyboard!"



When Dad pulled up gently to the curb in front of the old farmhouse, Mother was still sleeping soundly. But dreams that make as much sense as this one have a way of coming true. Drop in to see your Formica fabricator. You'll meet, face to face, the man who can make your dreams come true with Beauty Bonded Formica!

New 16 MM color sound movie, "Living with Formica" pictures uses and how it is made. Available now for group showings. Write for film.

"Just as good" is a fable . . . Look for the label.

Insist on genuine Beauty Bonded Formica.





# YOUR *"Inside"* STORY OF BATHROOMS FOR 1950

## or "A Century of Progress . . ."

Years ago in farm or city, bathrooms were quaint but seldom pretty. When they moved the things inside it was still a room we were glad to hide.



wonder the bathroom labeled "before" was kept behind a tight closed door. But "after" pictures the very same room, when Formica's color has banished the gloom.



AFTER

From the sparkling beautiful Vanitory\* to the smooth warm walls, Formica's cheerful colors offer the truly livable bathroom of your dreams.

Formica's hard non-porous surface cleans with the swish of a damp cloth . . . no rough mortar lines to catch and hold dirt and germs. Formica is unharmed by household acids, alkalies, alcohol, or boiling water.

Formica is the same rugged, beautiful material that has brightened so many million American homes on sinks, kitchen cabinet tops, and dinette tables.

It's easy to have Formica surfaces in your home.

There is a Formica fabricator near you who will design or build to your specifications, Vanitories, kitchen cabinet tops, or built-in furniture. Your local carpenter or building contractor can easily and quickly install Formica walls and fixtures. Ask for Formica top, dinettes and other furniture at your favorite store.

Send today for your free copy of "What's New in Bathroom". It's brimming over with colorful bathroom sign ideas. Write Formica, 4657 Spring Grove Avenue, Cincinnati, Ohio.



\*This label may be used only on combination lavatory-vanities surfaced with genuine Beauty Bonded Formica. The Vanitory offers greater work surface around the wash bowl as well as a colorful dressing table.



Beauty Bonded

**FORMICA**

at Home with People  
at Work in Industry



# General Electric Appliances for Better Living!



- ✓ CONVENIENCE
- ✓ ECONOMY
- ✓ DEPENDABILITY



# In Your Home . . .

**General Electric** appliances are your best buy today. They represent years of continuous research . . . years of testing under actual home conditions . . . and will give you the dependable service you expect. The General Electric name is your assurance of high quality.

**Choose General Electric Appliances and get . . .**



**CONVENIENCE!** The smallest detail of each General Electric appliance has been studied, improved, and tested—to make certain that you get the greatest convenience in practical use. To take the guesswork out of your housework, automatic devices—timers, push buttons, temperature controls, etc.—have been installed. In fact, wherever you want them, and wherever you need them—you'll find timesaving, worksaving features on General Electric appliances, to make your life easier for years to come!



**ECONOMY!** Whatever your family needs may be, General Electric has appliances to fit them perfectly. And no matter which General Electric appliances you buy, their design and construction provide maximum efficiency. You'll be certain to save both time and money—if you'll only make certain to buy General Electric!



**DEPENDABILITY!** With General Electric appliances in your home—to cook your meals, to freeze your foods, to wash your clothes, whatever the job is to be done—you'll enjoy year after year of day-in, day-out service—service you can always depend on.

**You can put your confidence in General Electric.**







## KITCHEN-LAUNDRY PLANNING IS MADE EASIER WITH GENERAL ELECTRIC WORK CENTERS

Everybody wants a *really modern* all-electric kitchen and laundry. And everybody wants the nicest-looking, most dependable appliances they can buy.

The mistake that many home planners make, however, is to think that an attractive refrigerator, range, and cabinets make an *all-electric* kitchen.

They don't.

The real electric kitchen is basically a workroom—planned to simplify kitchen duties and shorten working hours. It is a room designed primarily for use, where electricity takes over the difficult, unpleasant parts of housekeeping. Its size will depend upon the size of your family, or the amount of entertaining you do.

But most important—the all-electric kitchen is planned around “work centers.”

These are the Cooking Center, the Dishwashing Center, and the Food Storage Center. In the all-electric laundry, these work centers are the Washing Center, the Drying Center, and the Ironing Center.

If your kitchen or laundry is planned about these basic work centers, its size or shape will not affect its efficiency—but it will provide a step-saving room in which it is a joy to work and live.

For complete information on planning efficient work centers, see your local General Electric retailer, or write to the HOME BUREAU, GENERAL ELECTRIC COMPANY, BRIDGEPORT 2, CONNECTICUT.







NJ-8

New Alnico Magnetic Door models NHX-8 at left and NHX-8 have no latch... door closes easily, *quietly*. Alnico magnets in gasket door tightly to the cabinet.

Features include: new Rolla-Drawers; Redi-Cube Ice Trays; Butter Compartment. Best of all, you never have to defrost the food section of G-E combination models.

The economy model, NJ-8, above, is refrigerator-home freezer combination.

NHX-10

# The Finest Refrigerators ever made

When you decide to buy a new refrigerator, the most important thought to keep in mind is the year-in, year-out service you expect it to give. For the past twenty years, General Electric Refrigerators have earned and maintained a reputation for unsurpassed performance. Because General Electric uses only the highest-quality materials... maintains top-quality standards of manufacture, you can be sure the General Electric Refrigerator you buy will give you many years of enjoyable service at an operating cost of mere pennies per day.



**CONVENIENCE:** Whether your family is large or small, there is a General Electric Refrigerator to meet your needs... each with features galore. They're practical features, too. Features designed to make life easier for you... day in, day out... for years to come.



**ECONOMY:** The famous General Electric sealed-in refrigerating system gives you the finest in efficient, economical operation. It's airtight, oiltight... and you can count on it to save on food and electricity costs... for the long life of your General Electric Refrigerator.



**DEPENDABILITY:** General Electric dependability has not been surpassed... More than 2,200,000 General Electric Refrigerators have been in use ten years or longer—an unexcelled record for dependable, efficient performance.

Then, too, the various G-E models are replete with practical convenience features—sliding shelves for more accessibility, sliding baskets for small odds and ends, *deep* drawers for fruits and vegetables, spacious meat compartments and a host of others which will add to your refrigerator enjoyment.

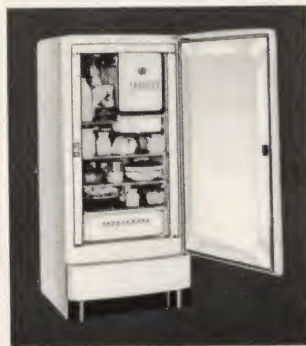
Compare different makes of refrigerators. Then choose wisely, for you have every right to expect the one you select to serve you a long time. And in looking them over, bear in mind these three important factors:







NF-10



NF-6



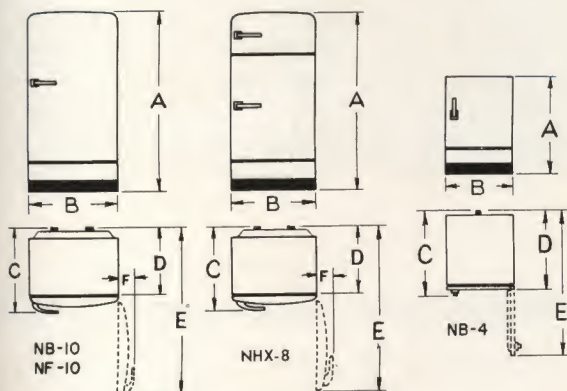
NB-4

**Space Maker Refrigerator!** For the 6- 8- and 10-cubic-foot models: 25 per cent to 50 per cent more refrigerated food storage in the same floor space occupied by former models. Big frozen-food compartment! Big meat and vegetable drawers! Butter conditioner in de luxe models.

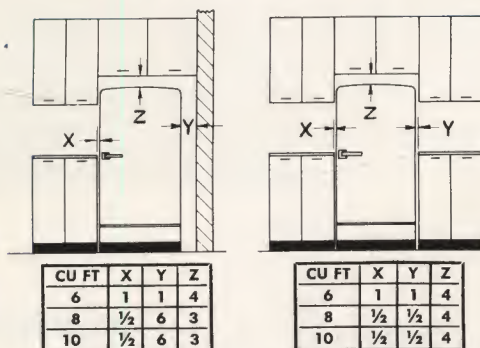
Useable, practical features . . . designed with the years ahead in mind!

**This Model NB-4** General Electric Refrigerator can be built in under a work surface and enclosed on both sides. Cooling air is drawn in and discharged at the front base.

OVER-ALL DIMENSIONS OF REFRIGERATORS  
(ALLOW 1/4-INCH TOLERANCE)



MINIMUM CLEARANCE—INCHES  
6-, 8-, 10-CU-FT REFRIGERATORS



THE ABOVE CLEARANCES ARE NECESSARY FOR  
PROPER VENTILATION OF THE REFRIGERATING UNITS

	A	B	C	D	E	F	Net Cubic Feet
NHX-10	67"	32 11/16"	29"	22 3/4"	55 1/2"	3 1/4"	10.0
NJ-10	67"	32 11/16"	29"	22 3/4"	55 1/2"	3 1/4"	10.0
NF-10	63 15/16"	32 11/16"	28 7/8"	22 5/8"	55 3/8"	3 1/4"	10.3
NC-10	63 15/16"	32 11/16"	28 7/8"	22 5/8"	55 3/8"	3 1/4"	10.3
NHX-8	63 7/16"	29 11/16"	29"	22 3/4"	53"	3 1/4"	8.2
NJ-8	63 7/16"	29 11/16"	29"	22 3/4"	53"	3 1/4"	8.2
NF-8	59 1/2"	29 11/16"	28 11/16"	22 5/8"	52 3/8"	3 1/4"	8.0
NC-8	59 1/2"	29 11/16"	28 11/16"	22 5/8"	52 3/8"	3 1/4"	8.1
NB-8	59 1/2"	29 11/16"	28 11/16"	22 5/8"	52 3/8"	3 1/4"	8.1
NC-6	53"	24 1/16"	27 7/16"	22 5/8"	46 5/8"	5/8"	6.0
NF-6	53"	24 1/16"	27 7/16"	22 5/8"	46 5/8"	5/8"	6.0
NB-4	34 1/2"	23 3/4"	26 3/8"	24 9/16"	47 7/16"	3 1/4"	4.0





**NA-11** ..... 11.1 cubic feet

### TAKE YOUR CHOICE OF THREE MODELS . . .

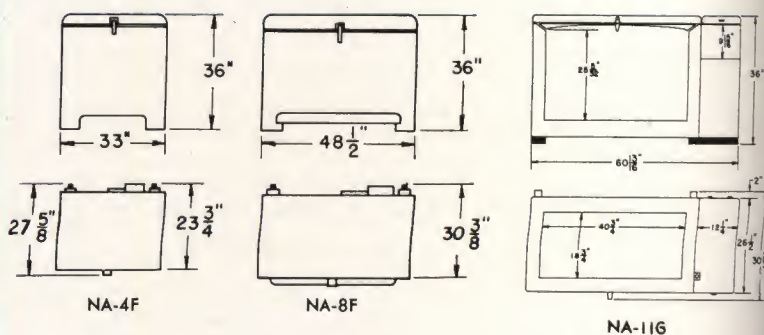
All-steel construction! One-piece aluminum inner shell! Lid —insulated and counterbalanced! Fiberglass thermal insulation. Automatic interior lighting!



**NA-4** ..... 4 cubic feet



**NA-8** ..... 8 cubic feet





# The Home Freezer Buy is a General Electric!

When you consider the following advantages, we think you will agree that the General Electric Home Freezer is your *best* investment:



**CONVENIENCE!** No more shopping at crowded food counters. No more rushing out into the rain or snow to "pick up something to eat!" Your G-E Home Freezer is a store that never closes, right in your kitchen . . . all kinds of food at your finger tips, any day of the year!



**ECONOMY!** Your General Electric Home Freezer enables you to buy in quantity—and at quantity prices. Buy at peak season when quality is best and prices are lowest. You'll be surprised how savings will mount up, and will help pay for the freezer itself!

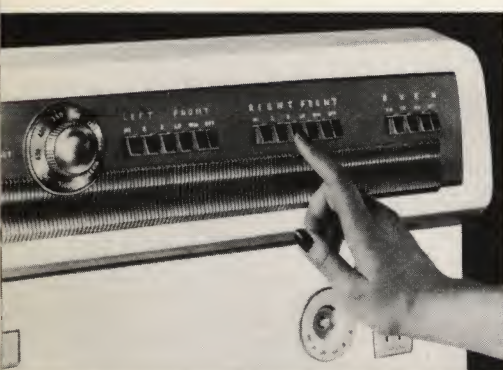


**DEPENDABILITY!** Has the same type of sealed-in refrigerating system that's proved so dependable in G-E Refrigerators. Two million of these systems have been giving economical service in G-E Refrigerators for ten years or longer! And you get "Perfect Seal" cabinet construction, too! You get zero temperature throughout!





# G-E Speed Cooking by just Pushing Buttons!



**Push a button**—there's one for each heat—gives the exact *heat* you want. Easy to see . . . easy to use. No need to stop if you happen to be stirring something. Gives you ease in cooking you never knew before.

**Wonderful meals . . . Superfast units . . . Shining cleanliness . . . Tried-and-true safety!**



**CONVENIENCE!** G-E "Speed Cooking" is easy—so easy you'll never, never want to go back to old-fashioned cooking methods again! Whatever feature you consider—General Electric beauty, fast Calrod heating units, cleanliness, or Automatic Oven Timer—you'll soon realize that convenience means that your work can be done quicker, better—and leave lots of spare time for other housework.




**ECONOMY!** General Electric Ranges are as economical as they are beautiful. An oven meal can be cooked for only  $3\frac{1}{2}\text{¢}$  (based on national average electric rates). And the deep-well Thrift Cooker saves pennies by the piggy-bankful. When you consider the speed with which you cook your meals, there's a real saving to you. And with all the great G-E convenience features, you'll save yourself a lot of work and headaches.



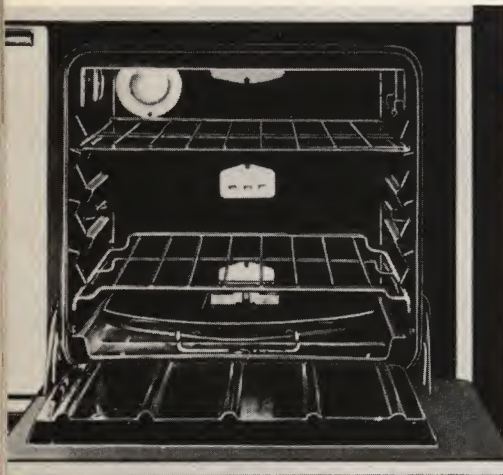
**DEPENDABILITY!** General Electric, always a leader in its field, always means dependability.

Whether you're considering the long life of the G-E Range, or the efficiency of its operation, you can depend on it that the G-E Range is unsurpassed—no matter how you look at it. Buy the best—enjoy the best—buy General Electric!

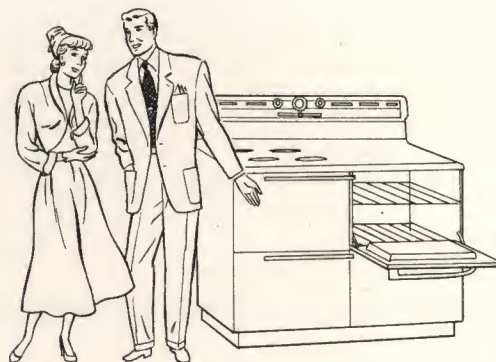


**Built-in Pressure Cooker** saves up to  $\frac{2}{3}$  cooking time, has safety-type, easy-lifting lid. Also equipped with nonpressure top, for deep-well-cooker meals. Deep-well Calrod\* heating unit can be raised, to give you a *fourth* surface unit.

\*Reg. U. S. Pat. Off.



**Tripl-Oven** that's really huge. Three in one! Master Oven can hold 30-lb turkey. Or can be adjusted into a smaller Speed Oven, that *heats faster than any other conventional range oven!* Convenient waist-high broiler, too!





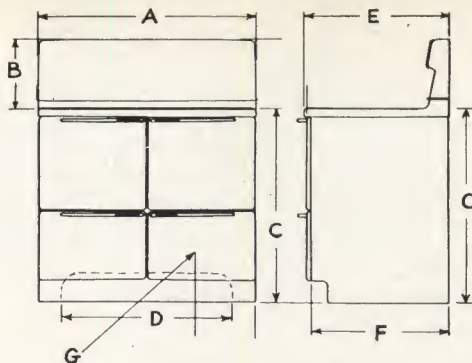


## THE GENERAL ELECTRIC "STRATOLINER"

Not just a new range! It's a new, *push-button* way to cook. So easy, so convenient, you'll love it!

**So many blessings:** Calrod heating units throughout—fast, five heats. New *EXTRA HI-SPEED CALROD UNIT*, the fastest 6-inch Calrod unit ever made, right rear unit. Tel-A-Cook Lights show cooking speeds by color. Automatic Oven Timer turns oven ON and OFF. Hi-style control panel makes controls easy to see. No-Stain Oven Vent traps grease from oven vapors, saves scrub-up time!





	A	B	C	D	E	F	G
<b>Liberator</b>	39"	12 $\frac{5}{8}$ "	36"	29 $\frac{7}{8}$ "	25 $\frac{13}{16}$ "	24 $\frac{11}{16}$ "	Knockout $\frac{3}{4}$ & 1 conduit Distance From Base 9 $\frac{3}{8}$ "
<b>Stratoliner</b>	39"	12 $\frac{5}{8}$ "	36"	29 $\frac{7}{8}$ "	25 $\frac{13}{16}$ "	24 $\frac{11}{16}$ "	$\frac{3}{4}$ & 1 conduit 9 $\frac{3}{8}$ "
<b>Speedster</b>	39"	10 $\frac{1}{2}$ "	36"	29 $\frac{7}{8}$ "	25 $\frac{13}{16}$ "	24 $\frac{11}{16}$ "	$\frac{1}{2}$ & $\frac{3}{4}$ conduit 9 $\frac{3}{8}$ "
<b>Airliner</b>	39"	8 $\frac{5}{32}$ "	36"	29 $\frac{7}{8}$ "	25 $\frac{13}{16}$ "	24 $\frac{11}{16}$ "	$\frac{1}{2}$ & $\frac{3}{4}$ conduit 9 $\frac{3}{8}$ "
<b>Stewardess</b>	39"	6 $\frac{1}{2}$ "	36"	29 $\frac{7}{8}$ "	25 $\frac{13}{16}$ "	24 $\frac{11}{16}$ "	$\frac{3}{4}$ & 1 conduit 9 $\frac{3}{8}$ "
<b>Leader</b>	39"	6 $\frac{1}{2}$ "	36"	29 $\frac{7}{8}$ "	25 $\frac{13}{16}$ "	24 $\frac{11}{16}$ "	$\frac{1}{2}$ & $\frac{3}{4}$ conduit 9 $\frac{3}{8}$ "
<b>Studio</b>	19 $\frac{1}{2}$ "	3 $\frac{1}{2}$ "	36"	19 $\frac{1}{4}$ "	25"	24 $\frac{11}{16}$ "	$\frac{3}{4}$ & 1 conduit 9 $\frac{3}{8}$ "



**LEADER (C11)**  
"Speed Cooking" at a  
budget price!



**SPEEDSTER (D11)**  
Push-button cooking—  
at a never-before price!



**STRATOLINER (D21)**  
Push-button controls,  
with built-in pressure cooker!



**STEWARDESS (C21)**  
Designed for those who  
require lots of storage space!



**LIBERATOR (E11)**  
Push buttons,  
and two complete ovens!



**AIRLINER (C31)**  
Automatic "Speed Cooking"  
that's really fast!

Studioranges—"Speed cooking"  
designed for apartment use  
(not shown)

MODEL A21—3 surface units  
MODEL A41—4 surface units





# It's Wonderful- PLENTY OF HOT WATER AT THE TURN OF A TAP!

Think of it! Gallons and gallons of hot water, day after day, year after year . . . automatically. Look at all these advantages of heating water the electric way, the General Electric way.

**CONVENIENCE!** Install it anywhere in your home — no chimneys or flues required. Shorter pipe runs mean INSTANT hot water. New Tripl-Control lets you regulate hot-water temperatures to suit your own special needs. Special table-top models install right in the kitchen or laundry, provide extra work surface.

**ECONOMY!** Famous Heat-wrap Calrod heating units insure efficient operation. Shorter pipe runs mean less heat loss, more saving for you. Also, many electric service companies give special low rates for heating water electrically. Heat trap, cold-water baffle, highly efficient insulation all give increased economy.

**DEPENDABILITY!** The General Electric Water Heater is built to rigid factory standards. Years of dependable operation have made a liberal ten-year tank-protection plan possible to safeguard your investment.

## SIZES, DIMENSIONS AND WATTAGES

Capacity in Gallons	Catalog Number	Unit Equipment	Tank	Tank Diameter in Inches A*	OVER-ALL DIMENSIONS		Floor to Cold-water Inlet in Inches	Floor to Hot-water Outlet in Inches D*	Floor to Service Outlet in Inches E*
					Diameter in Inches B*	Height in Inches C*			
15	DG15-1A	Single	Galv.	16	22	28½	2½	20¾	23¾
30	DG30-1A	Single	Galv.	16	22	45½	2½	37¾	40¾
	DG30-2A	Twin	Galv.	16	22	45½	2½	37¾	40¾
40	DG40-1A	Single	Galv.	16	22	57	2½	49¼	52¼
	DM40-1A	Single	Monel	16	22	57	2½	49¼	52¼
	DG40-2A	Twin	Galv.	16	22	57	2½	49¼	52¼
	DM40-2A	Twin	Monel	16	22	57	2½	49¼	52¼
50	DM50-1A	Single	Monel	20	26	50¼	2½	42½	45½
	DM50-2A	Twin	Monel	20	26	50¼	2½	42½	45½
52	DG52-1A	Single	Galv.	20	26	50¼	2½	42½	45½
	DG52-2A	Twin	Galv.	20	26	50¼	2½	42½	45½
66	DG66-1A	Single	Galv.	20	26	60½	2½	52¾	55¾
	DG66-2A	Twin	Galv.	20	26	60½	2½	52¾	55¾
	DG82-1A	Single	Galv.	20	26	71½	2½	63¾	66¾
	DG82-2A	Twin	Galv.	20	26	71½	2½	63¾	66¾

\*Positions of A, B, C, D and E shown on cross-sectional view.

## TABLE-TOP MODELS

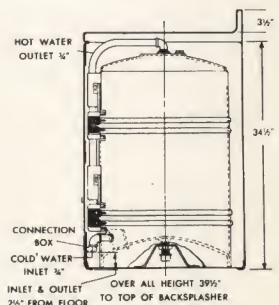
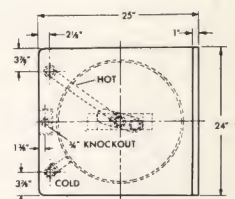
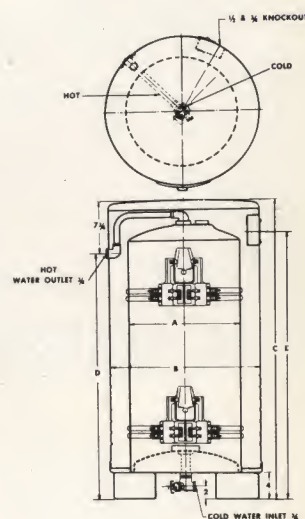
Capacity in Gallons	Catalog Number	Unit Equipment	Diameter in Inches	OVERALL DIMENSIONS			Floor to Cold-water Inlet in Inches	Floor to Hot-water Outlet in Inches	Floor to Service Outlet in Inches
				Height	Width	Depth			
30	DG30-5A†	Single	20	34½	24	25	2½	3¼	3
30	DG30-7A	Single	20	36*	24	25	2½	3¼	3
40	DG40-5A†	Single	20	34½	24	25	2½	2½	1½
40	DG40-7A	Single	20	36*	24	25	2½	2½	1½
40	DG40-6A†	Twin	20	34½	24	25	2½	2½	1½
40	DG40-8A	Twin	20	36*	24	25	2½	2½	1½

\*Floor to work surface. Backsplasher is 1 in. thick and extends 3½ in. above work surface.

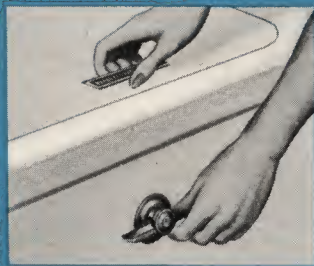
†Without porcelain top and backsplasher.

Wattages available—16-inch tank: 600, 750, 1,000, and combinations up to 3,000 watts. 20-inch tank: 750, 1,000, 1,250, 1,500 and combinations up to 4,500 watts.

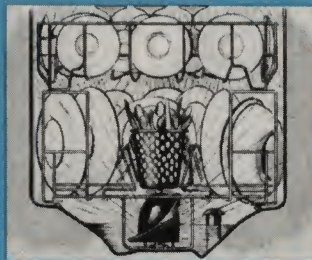
Specifications subject to change without notice.



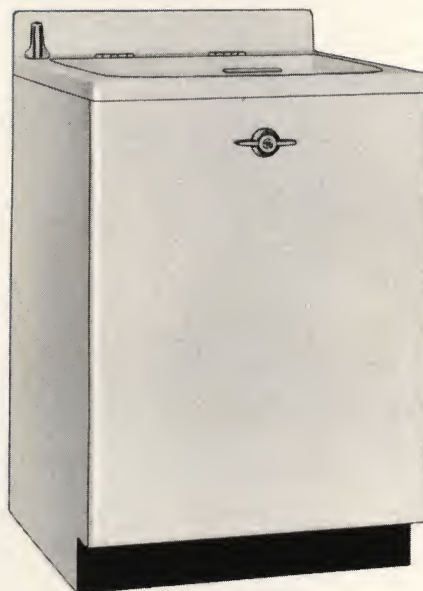




It's Automatic! After adding the detergent, you simply close the cover and turn a switch. The Dishwasher goes to work getting each piece cleaner than you could by hand. Your job is done—you're free—to do whatever you choose.



Each piece in the Dishwasher is thoroughly cleaned and washed by the hot water and detergent. Only the water moves—not the dishes. They stay firmly in the racks.



The General Electric Dishwasher can be bought separately in the handsome cabinet model illustrated.



# The grandest thing that ever happened to a Kitchen!

## Dishwasher-Sink and Disposall\*

For sheer, gleaming beauty there has never been a sink to compare with this one. And it contains the famous General Electric Dishwasher—the wonder appliance of all time.

Just put all dishes, glasses, silver into the racks, add detergent (not soap), touch a simple control—and the Dishwasher *automatically* does the rest!

**EXTRA!** If you never want to touch garbage again—there's a place in the Electric Sink for the marvelous General Electric Disposall. Automatically, it grates all food waste into tiny particles—flushes them harmlessly away into sewer or septic tank!

\*General Electric's registered trade-mark for its food-waste disposal appliance.



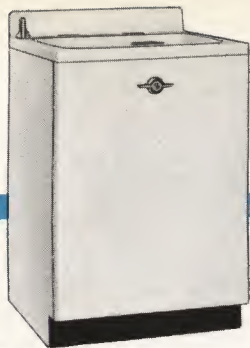
Scrape all food waste into the drain opening. With General Electric Disposall, that's the last you'll ever see of it. It's the easy, sanitary way to eliminate garbage.



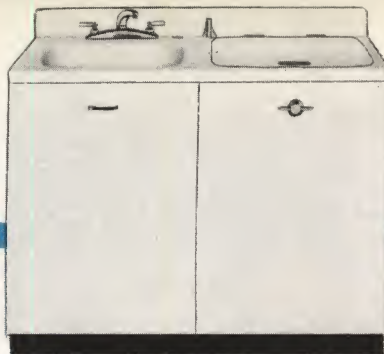
Turn on cold water. This automatically starts the Disposall action. Food waste is shredded into tiny particles, flushed into sewer or septic tank.







**BE-748**  
G-E Automatic  
Dishwasher



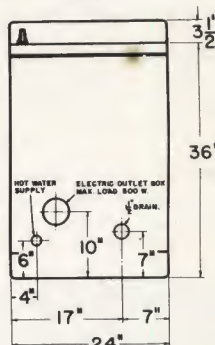
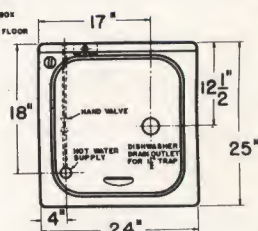
**DE-748**  
G-E Electric Sink with  
Automatic Dishwasher



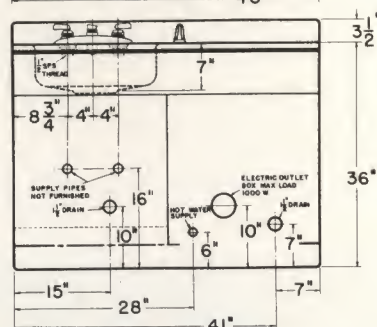
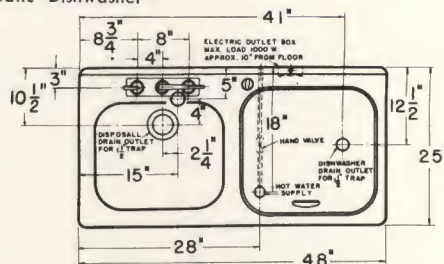
G-E Portable  
Dishwasher

BE-848 identical with BE-748 but empties into existing sink. Drain outlet unnecessary. Changes in plumbing seldom required.

ELECTRIC OUTLET BOX  
MAX. LOAD 800 W.  
APPROX. 10" FROM FLOOR



**BE-748**



**DE-748**

DE-848 identical with DE-748, but empties into sink bowl. Drain outlet unnecessary. Changes in plumbing seldom required.

**BE-748**—Automatic Dishwasher—cabinet model. Same structural features as DE-748.

**DIMENSIONS:** Height, 36 inches plus 3 1/2-inch backsplash; width, 24 inches; depth 25 inches.

**AE-748**—Automatic Electric Dishwasher, for custom-built installations. Drop-in model, fits into work surface. Mounting surface must be at least 24 inches wide, 25 inches deep, and 36 inches high.

**PLUMBING CONNECTIONS** (AE-748 and BE-748)—Water inlet valve tapped for connection to a 3/8-inch hot-water line. Drain outlet fits 1 1/2-inch trap (trap not furnished).

**ELECTRICAL CONNECTIONS** (AE-748 and BE-748)—Should be made with BX cable or equivalent to junction box in separate power line. Connections must conform to local codes.

**G-E PORTABLE DISHWASHER**—Completely portable, no plumbing installation.

**Dimensions:** Over-all height, 38 1/2 inches; diameter of tub, 23 1/2 inches; maximum over-all dimensions front to back at hinge, 26 inches.

**DE-748**—Sink, sink top, dishwasher cover are acid-resistant, porcelain-enameled steel. Faucet assembly chrome-plated brass. Cabinet—heavy-gage steel, bonderized and finished with white baked-on enamel.

**DIMENSIONS:** Height—36 inches plus 3 1/2-inch backsplash. Width—48 inches. Depth—25 inches.

**PLUMBING CONNECTIONS:** Faucet inlets tapped for 1/2-inch pipe. Dishwasher inlet valve tapped for 3/8-inch hot-water line. Dishwasher and Disposall outlets fit 1 1/2-inch traps (traps not included).

**ELECTRICAL CONNECTIONS:** Should be made with BX cable to junction box in separate power line. Connections must conform to local codes.

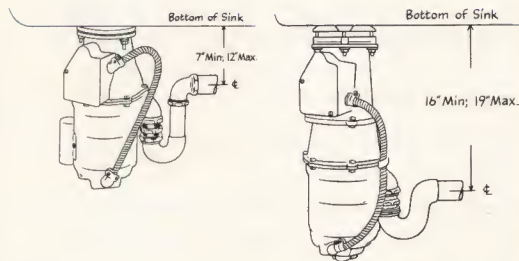
**MOTOR:**—115 volts; 60 cycles; 420 watts average input: 1/4 hp; 1725 rpm; 1/2 hr. time rating.

**RECOMMENDED WATER TEMPERATURE**—140 to 160°F.





## Disposall Installation



**Specifications for Disposall** — The specifications for both Disposall models are practically identical. They differ only in size—the FA-3JR can be installed where existing plumbing makes installation of Model FA-3ER difficult. Provides extra storage space under sink.

### INSTALLATION:

**Plumbing**—Can be installed in sinks with  $3\frac{1}{2}$ - to 4-inch diameter sink opening. Outlet fits a  $1\frac{1}{2}$ -inch trap (trap not furnished). Water Flow Interlock is tapped for  $\frac{1}{2}$ -inch pipe and must be plumbed into cold-water line to sink faucet.

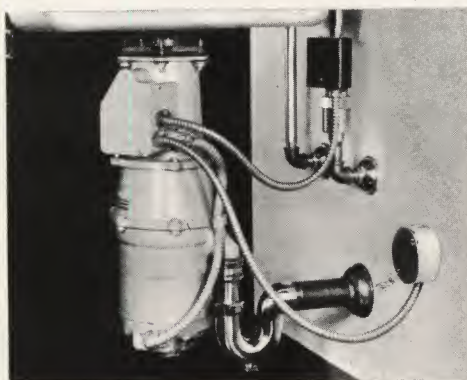
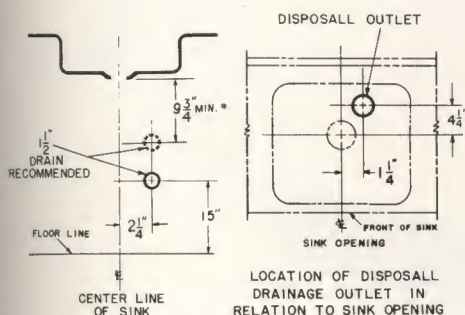
Hi-Boy trap KTA-1262 accommodates most high wall drain roughing.

**Electrical**—Connection should be made with BX cable or equivalent to a junction box. All connections must conform to local codes.

**MOTOR**: 115 volts; 60 cycles; 450 watts average input; intermittent duty, 1725 rpm. Permanently lubricated roller bearings in resilient mountings. Built-in overload protection.

### DRAIN LOCATION Inches below sink bottom

	FA3-JR	FA3-ER
CONVENTIONAL TRAP		
Minimum	11½"	16"
Maximum	16½"	19"
KTA-1262 TRAP		
Minimum	7"	11½"
Maximum	12"	14½"



\*See Drain Location Chart



# and here's a

**AUTOMATIC WASHER—Model 6 A8**—For a wash that's bright as sunlight . . . every piece with that hand-done look . . . depend on this new General Electric Automatic Washer!

Just put in the clothes and set the dial! It does everything else for you, all by itself:

1. Washes clothes with thorough soil-removing Activator\* action. Gets clothes really clean!
2. Rinses thoroughly, in Activator rinse.
3. Spins clothes damp-dry—dry enough to be ironed *at once!*
4. Automatically shuts off . . . ready for reload.

All this . . . plus General Electric *dependability!*

\*Trade-mark Reg. U. S. Pat. Off.



**AUTOMATIC  
WASHER**





# Complete G-E Laundry!

**AUTOMATIC  
DRYER**



◆ **AUTOMATIC DRYER (AD6)**—Toss your clothes into the Automatic G-E Tumbler Dryer. It dries them indoors—quickly. No more waiting till the sun shines—no more hanging clothes up and taking them down.

Clothes are *automatically* dried—soft and fluffy, sweet and clean.

Don't depend on the weatherman when you dry your clothes—depend on General Electric!

**FLATPLATE  
IRONER**



▲ **FLATPLATE IRONER (AF13)**—Enjoy the comfort of “sit-down” ironing. Feel the pride of ironing *everything*—beautifully, professionally!

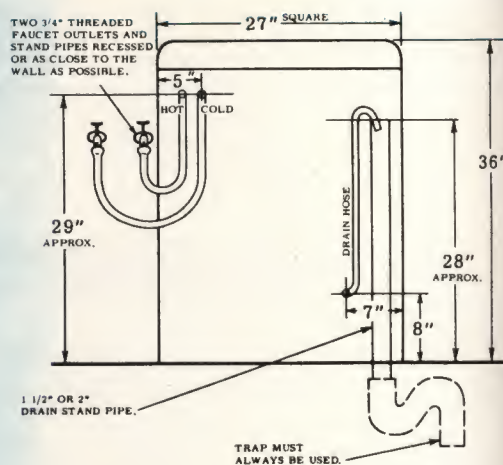
Heat is automatically controlled for each fabric . . . 400 pounds of pressure . . . *finger-tip control*! 300 square inches of ironing surface! Does two flat pieces at a time! Does the job of 11 hand irons!

Give your clothes and linens that “hand-done” look with the General Electric Flatplate Ironer.





# Specifications...



## AUTOMATIC WASHER (6 A8)

Electrical rating: 115 volts, 12 amp, 60 cycles

Dimensions: 27 inches wide; 27 inches deep; 36 inches high

Weight: Approximately 285 pounds, net



## ◀ AUTOMATIC TUMBLER DRYER (AD6)

Electrical rating: 230 volts, 4600 watts, 60 cycles. Total operating load 21 amp

Dimensions: 31 inches wide; 27 inches deep; 36 inches high

Weight: 220 pounds

## ▶ WRINGER WASHER (AW352)

Electrical rating: 115 volts, 60 cycles, motor rating 1/3 hp

Dimensions: 26 3/4 inches wide; 26 3/4 inches deep; 48 inches high

(Requires no installation)





### ROTARY IRONER (AR70)

Electrical rating: 115 volts, 1500 watts,  
60 cycles

Dimensions: Closed — 36½ inches long;  
16½ inches deep; 36½  
inches high  
Open — 61½ inches long;  
34 inches deep; 40  
inches high



### ROTARY IRONER (AR50)

Electrical rating: 1300 watts at 115 volts,  
60 cycles

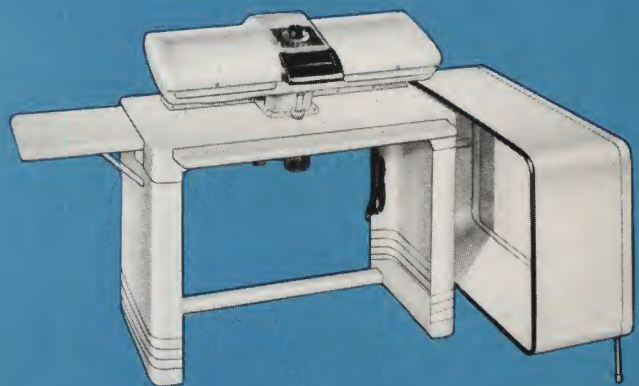
Dimensions: Closed — 32 inches long;  
14 inches deep; 32½  
inches high  
Open — 32 inches long;  
22½ inches deep; 38½  
inches high



### FLATPLATE IRONER (AF13)

Electrical rating: 110 volts, 60 cycles,  
1575 watts

Dimensions: Closed — 36 inches wide;  
19 inches deep; 36  
inches high  
Open — 58 inches wide;  
42 inches deep; 34  
inches high



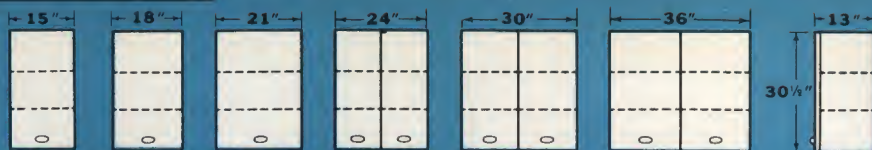
(Not Shown)

### PORTABLE ROTARY IRONER (AR30)—

Manually operated by "finger-tip" lever  
Roll: 5-inch diameter, 22 inches long.  
Open end

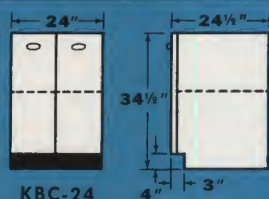


## WALL CABINETS

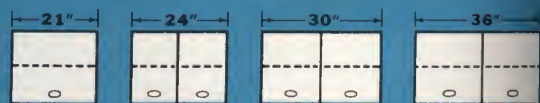


KW-1530 R&L   KW-1830 R&L   KW-2130 R&L   KW-2430 R&L   KW-3030 R&L   KW-3630 R&L

## CUPBOARD BASE CABINET

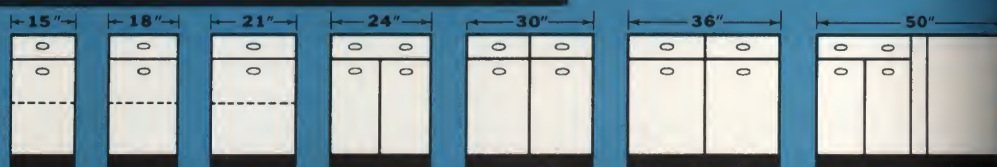
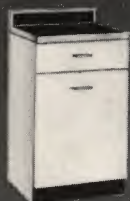


KBC-24



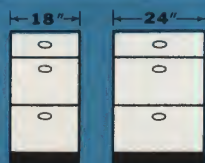
KW-2118 R&L   KW-2418 R&L   KW-3018 R&L   KW-3618 R&L

## CUPBOARD DRAWER BASE CABINETS



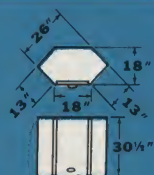
KBC-D15 R&L   KBC-D18 R&L   KBC-D21 R&L   KBC-D24 R&L   KBC-D30 R&L   KBC-D36 R&L   KBCD-C50 R&L

## DRAWER BASE CABINETS



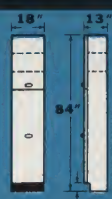
KBD-18   KBD-24

## CORNER WALL CABINETS



KW-C30

## UTILITY CABINETS



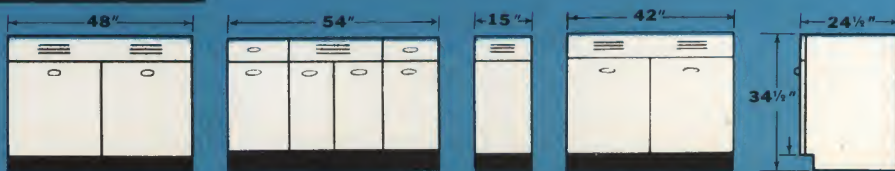
KU-W18

## SINK FRONTS



KBF-S24   KBF-S36

## SINK CABINETS



KBS-48

KBS-54

KBS-15

KBS-42



# G-E Storage Cabinets Really fit Your Needs!

General Electric Storage Cabinets are the practical, finishing touch for your complete G-E Kitchen and Laundry.



**CONVENIENCE!** They provide adequate and easily accessible storage space for kitchen and laundry supplies, utensils, and equipment. Drawers open all the way out. Wire shelves provide full visibility. And the complete line of accessories — from cup hooks to flour bin — is designed with *your* convenience in mind.



**ECONOMY!** Think of it — *economy of space*. No haphazard storing of all sorts of kitchen and laundry supplies. What a *saving of your time*! No wandering around, hoping to find what you're looking for. And no trouble at all in keeping your cabinets clean. Just a whisk of a damp rag and the surfaces fairly sparkle.



**DEPENDABILITY!** Made of heavy-gage sheet steel, welded construction for strength and rigidity. The finish is of two-coat, baked-on enamel. Inside and out, these G-E Storage Cabinets are built to take it — for years and years to come. You can depend on them — because they're General Electric!

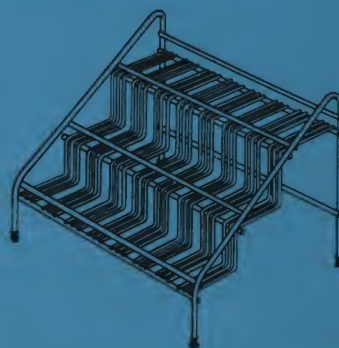
**Harmonize with General Electric Appliances!** G-E Storage Cabinets are designed to match the beauty of General Electric appliances. From the hardware to the gleaming finish, these cabinets are the final touch to a beautiful kitchen and laundry.

Only when you use G-E appliances and storage cabinets can you enjoy a *complete* General Electric Kitchen or Laundry.

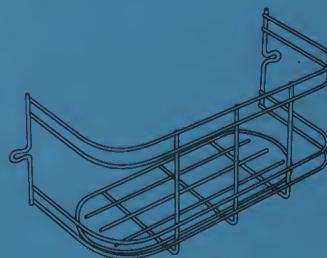


## MANY OTHER ACCESSORIES for Maximum Convenience and Utility

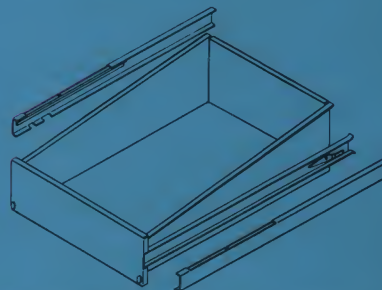
- Bulk Storage Bin
- Sliding Flour Bin
- Bread and Cake Bin
- Cutlery Tray
- Towel Rack
- Sliding Shelf
- Drawer Divider
- Expanding Condiment Shelf
- Pan Cover File
- Cup Rack and Cup Hooks



- A very handy accessory. Can be used in any wall cabinet or as a portable unit. Many uses will suggest themselves, although it is primarily designed for storing small packages.



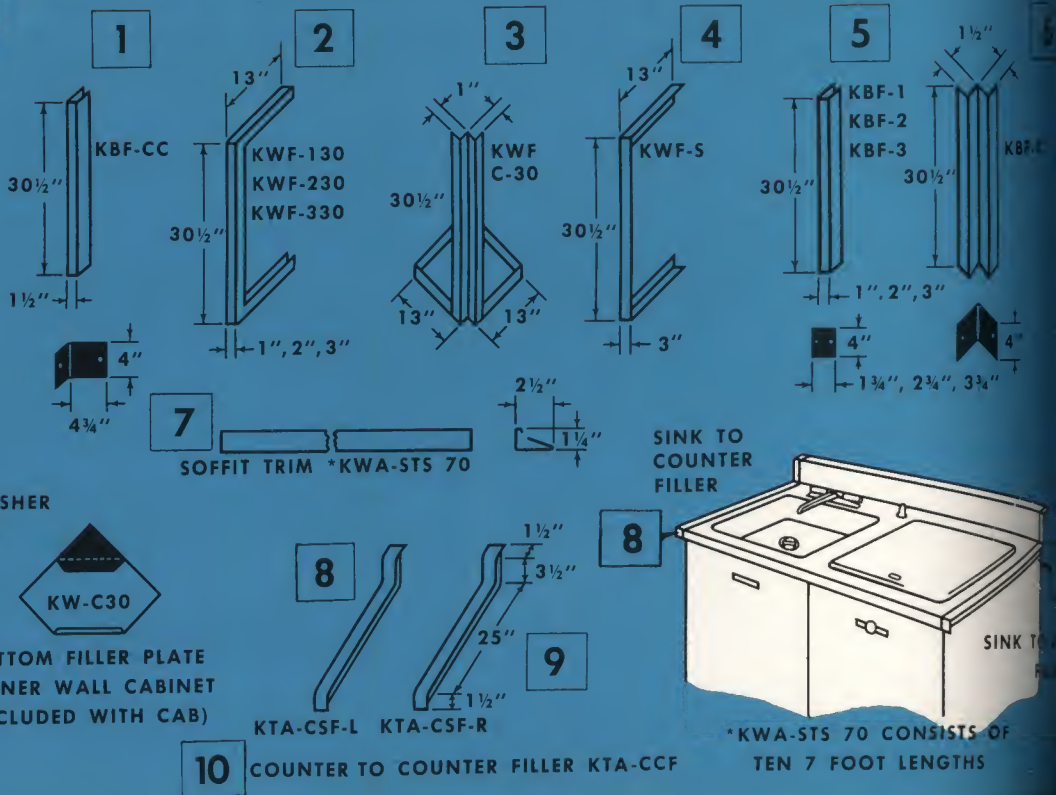
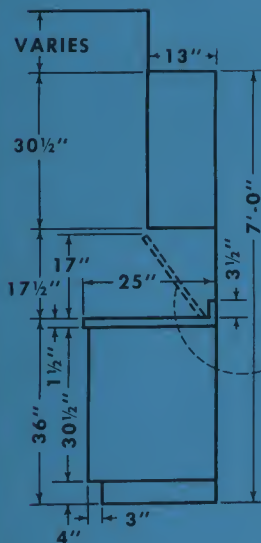
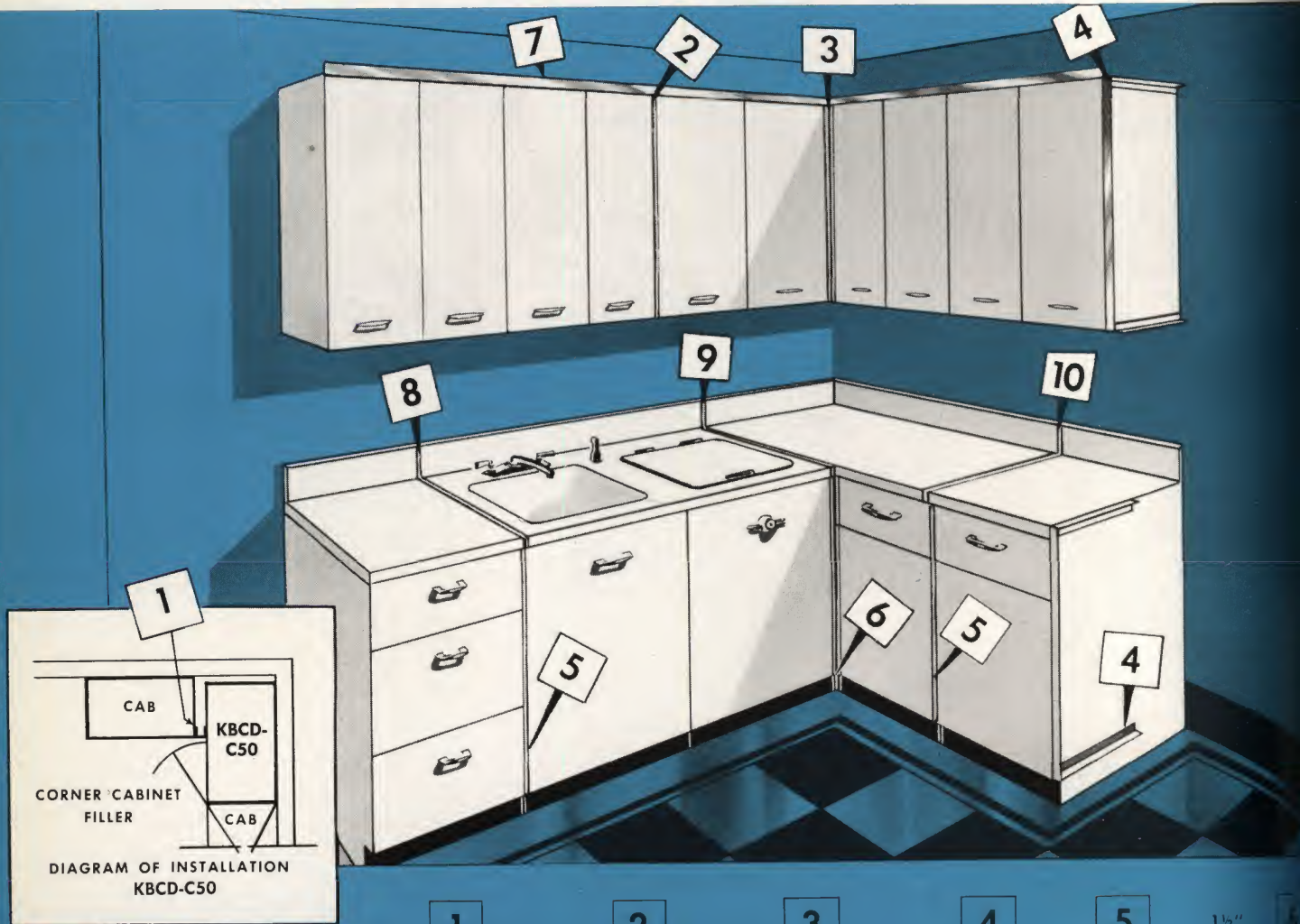
- Can be installed on any G-E cabinet door back, providing added storage space. Used for small articles, special utensils, appliance cord sets, etc. 3½ inches deep.



- Can be installed in cupboard base cabinets and in cupboard section of cupboard drawer base cabinets. Can be installed at any desired height — and several can be placed in one cabinet.



# Installation Fillers





## AUTOMATIC WALL-CABINET VENTILATING FAN Cat. No. FM10C1

A General Electric Automatic Wall-cabinet Ventilating Fan is indispensable in kitchens—and in other rooms—where smoke, odors, and hot air accumulate. With maximum efficiency and quietness, this fan will exhaust stale, smoke-filled air, and will replace it with fresh air, to keep the kitchen and other rooms cool, clean, and pleasantly comfortable.

**Voltage:** 110/120 a-c only

**Cycles:** 60

**Watts:** 61

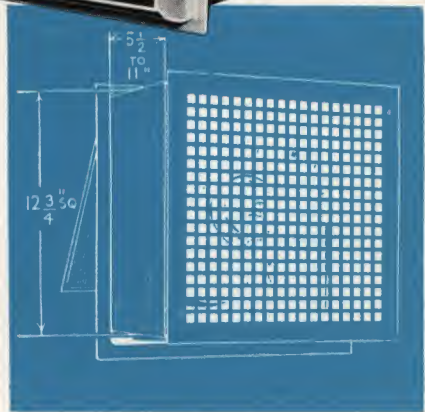
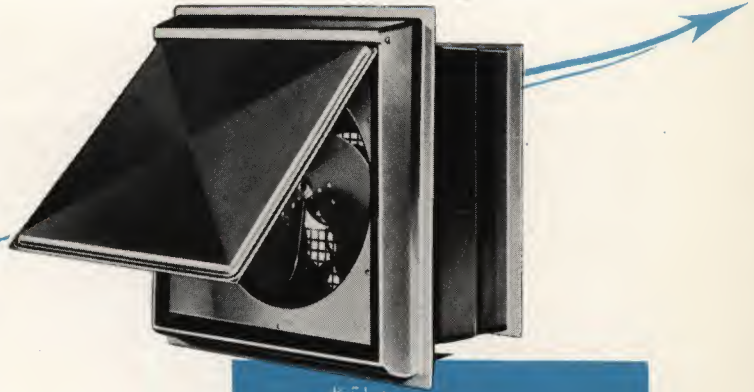
**Noise Level Db:** 43

**Volume, cubic feet per minute:** 500

**Pressure-test method**

**Operating cost per hour in cents:**  $\frac{1}{4}$   
(at national average rates)

- Attractively finished in gray enamel with white inside grill
- Overlapping quiet blades
- Outside door opens and closes automatically
- Sturdy, powerful General Electric motor
- Adjustable wall-box fits all walls from  $5\frac{1}{2}$  to 11 inches thick
- Requires  $12\frac{3}{4}$ -in. square opening in wall



## BUILT-IN WALL HEATER Cat. No. PH4A1

This heater consists of three separate pieces: a wall box, a heating assembly, and a guard. It can be installed in the wall of a bathroom or in any room where additional instantaneous heat is desired. Complete, this heater makes any bathroom, any room look more modern.

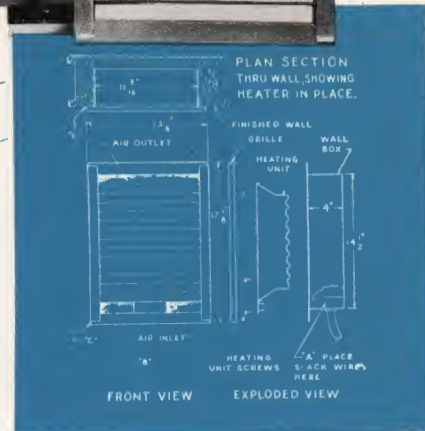
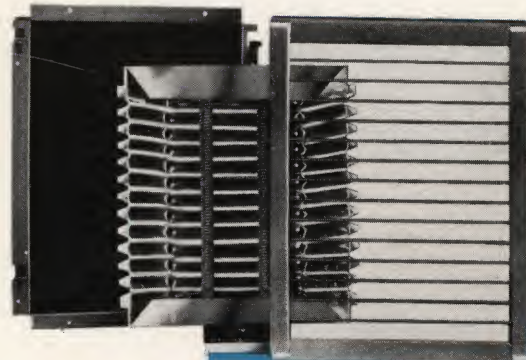
**DIMENSIONS**— $17\frac{1}{8}$  inches high by  $13\frac{1}{8}$  inches wide by  $4\frac{3}{4}$  inches deep

**RATING**—1320 watts, 115 volts, a-c/  
d-c, 4507 btu per hour


**SHIPPING WEIGHT**—10 lb . . . shipped  
in two separate cartons

### SPECIFICATIONS and EQUIPMENT

- Radiant convection-type heater
- Economical to operate
- Long life—two heating elements of nichrome wire—ceramic cores
- Equipped with tumbler switch as integral part
- Highly polished corrugated-aluminum reflector
- High-quality steel-wire protective guard
- Flush mounted—guard projects only  $\frac{5}{8}$  inch
- Easy to clean—guard quickly removed
- Hammertone gray finish
- Remote control available
- Simple to install





*You can put your confidence in*  
**GENERAL  ELECTRIC**

**CONVENIENCE**



**ECONOMY**



**DEPENDABILITY**



**GENERAL ELECTRIC COMPANY**

**Appliance and Merchandise Department  
Bridgeport 2, Connecticut**





# home heating

THE MODERN,  
LOW-COST WAY  
TO

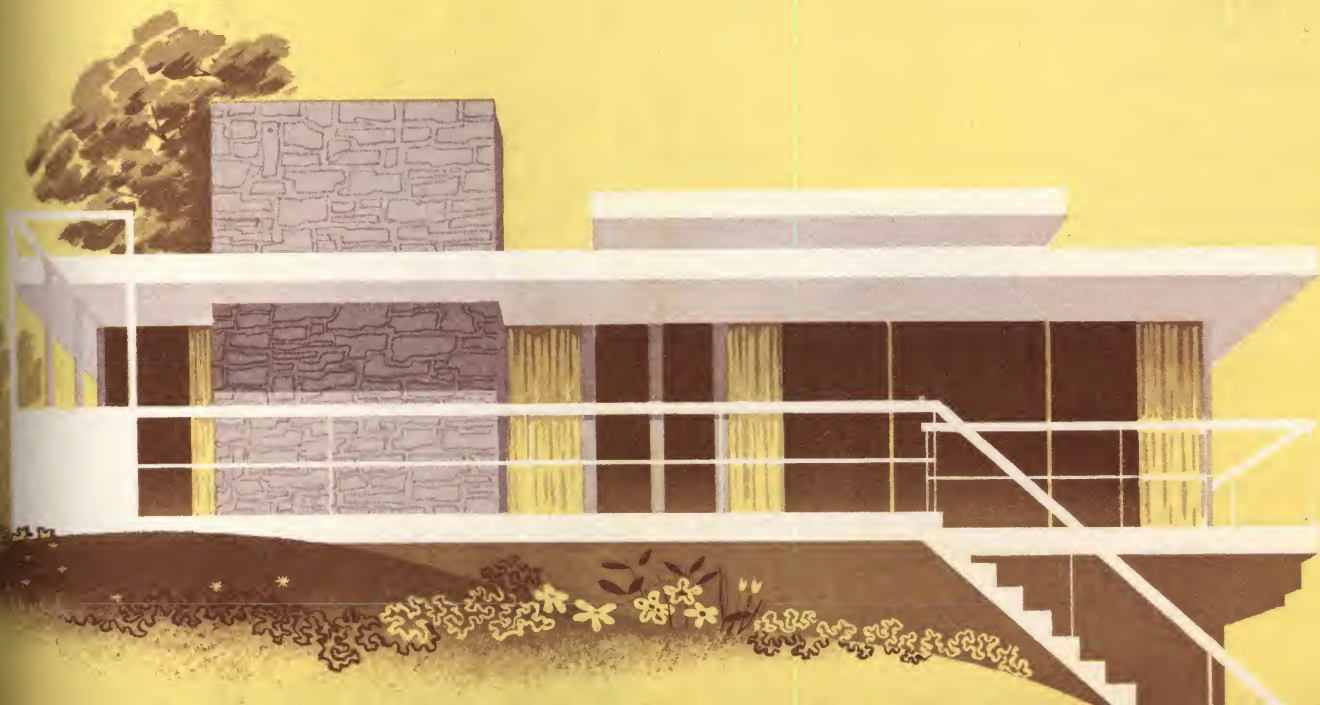
## home heating comfort

**IN THAT NEW HOME** you're going to be so proud of, there'll be nothing quite as important as the heating system you install. Here—where comfort begins—you'll want *automatic* heating equipment you can depend on.

For satisfaction, economy, and dependability throughout the years, insist on General Electric home heating. It's completely automatic . . . and it's manufactured by one of the leaders in home heating. There's a G-E unit for *every type* of heating system—steam, vapor, hot water, radiant panel, or warm air. No matter which G-E unit you choose you'll get amazing economy and reliable service . . . real *luxury* comfort all winter long.

G-E BOILERS AND WARM AIR  
FURNACES—for Oil or Gas!

G-E AIR-WALL HEATING . . .  
radiant heat **plus** forced  
warm air heat from  
a standard G-E Furnace!





# new, greater comfort

FOR WARM AIR HEATING . . .

*an amazing new system of distributing heat*

*from a standard G-E furnace!*



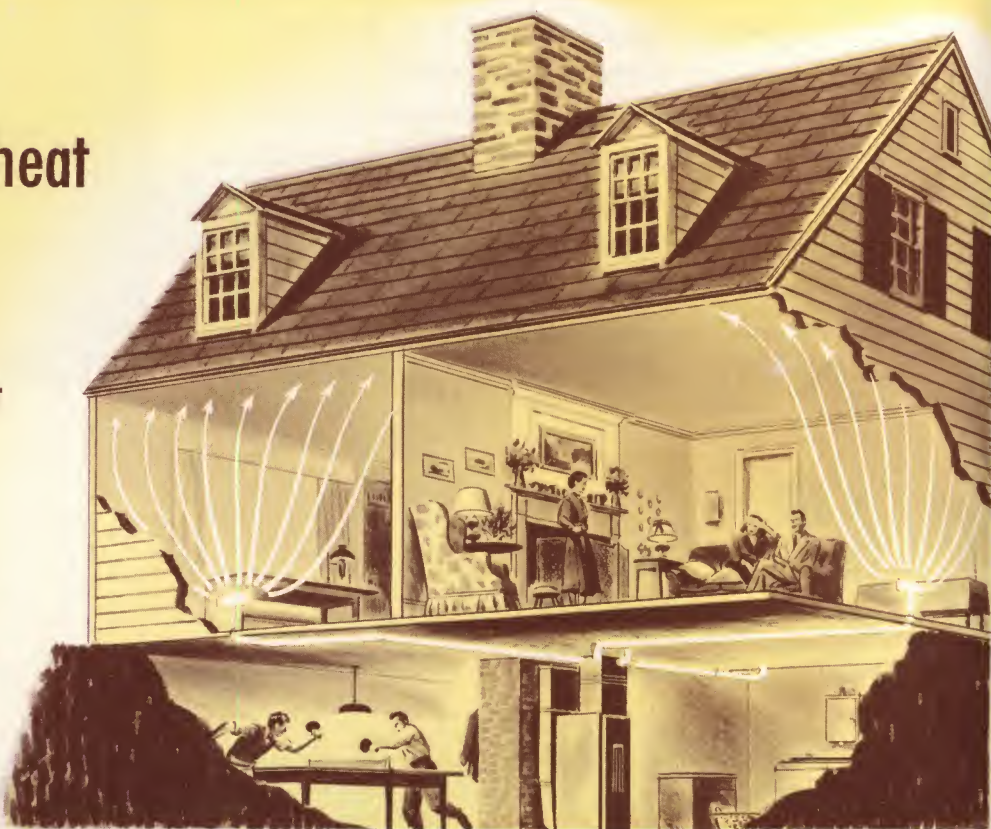
## AIR WALL

### HEATING

2 types of heat  
in 1

**FORCED WARM AIR HEAT  
PLUS  
RADIANT HEAT**

A G-E warm air furnace . . .  
the G-E thermostat . . . small  
diameter ducts . . . and the  
unique G-E Air-Wall Register  
. . . team up for greater  
comfort and savings in fuel.



**The G-E Air-Wall Register**—Notice the pattern of heated air from the unique G-E register. It blankets the cold walls of the rooms in your home . . . and warms them so they actually radiate heat!





# Only G. E. OFFERS SUCH A COMPLETELY ENGINEERED AND COORDINATED HEATING SYSTEM

Greater Comfort, complete freedom of furniture placement, and quieter operation . . . you get them all from new G-E *Air-Wall* Heating—the most important home-heating development in years! No special furnace is needed. G-E *Air-Wall* Heating teams up with the time-tested, standard G-E Warm Air Furnace, for either gas or oil. G-E *Air-Wall* employs new small-diameter ducts and the unique new G-E register to bring you greater comfort and fuel savings!



## YOU GET THESE ADVANTAGES FROM **G-E AIR-WALL** HEATING



**Benefits of 2 types of heat!** The new G-E *Air-Wall* Register, a product of G-E research and engineering, is generally placed just above the baseboard. It directs air up and out in front of the wall . . . warming the cold surface so it radiates heat. You get better forced warm air heat, too. The air pattern cuts down natural cold drafts which normally creep down cold walls.



**Freedom of furniture placement!** You can sit directly in front of the *Air-Wall* Register and feel no draft . . . no uncomfortable hot blasts.



**Balanced heat in all rooms!** You can accurately adjust heat flow to each room in the home by simple adjustment of the damper on each duct, with minimum disturbance to the "balance" of heat to other rooms.



**Even floor-to-ceiling temperatures!** The wall of warmed air diffuses quickly with other air to give even temperatures throughout the room. Warmer floors, too! In the morning, you feel no cold air that has settled overnight in the ducts.



**Quiet!** Small *Air-Wall* ducts dampen furnace noise more readily than large ducts. *Air-Wall* Register design with insulated dampers also helps to reduce noise.



**Beauty in the basement!** Do more living, less head-bumping in your basement. *Air-Wall* ducts are small and neat. G-E furnaces are compact and handsome. And, of course, you get heat that is completely automatic and warmed air that is both filtered and humidified. *Air-Wall* operates with the G-E Warm Air Furnace—oil or gas.

Only General Electric offers such a completely engineered heating system from furnace to the rooms in your home.



FOR STEAM, VAPOR, HOT WATER,  
OR RADIANT PANEL HEATING SYSTEMS



# oil boilers

**MODERN DESIGN** gives you  
**luxury comfort with low, low fuel costs**

Here is the famous G-E Oil Boiler—a completely coordinated heating unit . . . planned, designed, and built to give you the most heat . . . at the least cost . . . from every drop of oil you burn. It's packed with engineering features that spell greater home comfort and economy for you! If you're planning on oil heat, the General Electric Oil Boiler is the perfect answer!

**WHY G-E OIL BOILER  
SAVES YOU MONEY—  
GIVES MORE COMFORT...**

**G.E. burns all the oil!** The G-E burner nozzle mixes oil and air in a special mixing chamber, then *atomizes* the oil bubbles into millions of quick-flaring particles, which burn completely!



**G-E "turn-back flame" gives more heat, clean heat!** The down-burning flame turns back on itself, and you get long 2-way flame travel . . . with the greatest amount of heat. Flame burns *clean* because it *burns all the oil*. No soot or oil smell.



**Quick heat!** G-E steel combustion chamber walls permit rapid transfer of heat from flame to water and extract all possible heat from fast-burning oil, quickly! The G-E Oil Boiler requires only a minimum amount of water . . . so there are no extra gallons to soak up heat.



**G-E "heat trap" design saves fuel!** Maze-like flue passage is at bottom, so less heat is lost up chimney. Heat goes to home longer during shutdown periods, too!



**NOW—INSTANTANEOUS DOMESTIC HOT WATER ALL YEAR LONG!** You get hot water all year long from G.E.'s new built-in instantaneous hot water coil—right from the same unit. Coil is available as an accessory.



## ATTRACTIVE!

The G-E Oil Boiler is small and compact with a handsome blue-grey finish that's as easy to clean as your refrigerator. You'll be proud to display it to guests. Complete boiler is enclosed in one attractive jacket.



**G-E SUPER-SENSITIVE CONTROLS AND SAFETY  
FEATURES FOR COMPLETE DEPENDABILITY**

## CONVENIENCE AND FUEL-SAVING—



Select temperature you want with attractive **G-E Room Thermostat**.



Optional **G-E Day-Night Time Switch** automatically sets back temperature at night, turns it up in the morning.

## SAFETY—



**G-E Flame Detector** shuts down unit within 5 seconds in case of flame failure.



**G-E Limit Switch** shuts down unit if pressure or temperature gets too high.



**G-E Master Control** electrically coordinates all starting and running.



**G-E Flue Pressure Switch** shuts off unit in case of undue pressure in flue passages.



**G-E Low Water Cutoff** stops burner if water level is too low.



**FOR LONG LIFE—**G. E. gives you welded steel boiler construction, and the entire G-E unit—boiler, burner and controls—is designed, manufactured and "packaged" as a completely coordinated heating plant. General Electric stands behind the entire unit!

**"Many home owners report fuel savings up to 50%!"**



FOR WARM AIR SYSTEMS



# oil warm air furnaces

**NEW ECONOMY  
...NEW COMFORT**

General Electric Warm Air Furnaces bring you something new in automatic home heating! They're the result of years of G-E research and study in controlling the conditions of the air you breathe. They bring you greater comfort... at less cost!

**HERE'S WHAT THE  
MODERN G-E  
WARM AIR FURNACE  
DOES IN YOUR HOME...**

**Heats!** Economically warms the air to temperature you desire.



**Humidifies!** Healthfully moistens the air you breathe, relieving the dryness that's so unpleasant in the winter.



**Filters!** Keeps air cleaner, cuts housekeeping by filtering all air through replaceable panels of spun glass wool which remove dust and dirt.



**Circulates!** Moves air gently throughout every room in the house for your greater comfort.



**Summer comfort too!** Even in the summer, your G-E Oil Warm Air Furnace gives you greater comfort. During hot weather the blower may be kept running alone, gently circulating air throughout the house.



**WHY YOU  
SAVE MONEY**

**G. E. burns all the oil!**

The G-E Furnace uses famous G-E "Atomizer" method of burning oil. All the oil goes to heat your house, because every drop is shattered into millions of microscopic particles which burn completely.

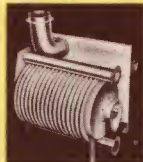


**G-E "turn-back flame"**

gives more heat because the hot gases from the burning oil stay in the heating chamber longer.



**Quick heat!** The heat transfer element is made of rugged steel with external finned surfaces for high heat transfer rate. When burner is on, heat is transferred *rapidly* to the air moving to the rooms of your home. When burner is off, there is less stored heat to be lost up the chimney.



Designed for use with G-E Air-Wall Heating or with standard forced warm air systems.



**G-E SUPER-SENSITIVE CONTROLS  
AND SAFETY FEATURES  
FOR COMPLETE DEPENDABILITY**

**CONVENIENCE AND COMFORT—**



Attractive G-E Room Thermostat allows you to select temperature you want.



G-E Fan Switch automatically starts fan when the furnace has warmed up. Fan continues to run after burner shuts off to take advantage of heat still in the furnace.

**SAFETY—**



G-E Master Control—with electric precision—times the sequence of operations during start-up.



G-E Flame Detector shuts down unit in case of failure.



G-E Limit Switch shuts off flame if furnace temperature rises too high, allows it to start again when temperature drops sufficiently.



G-E Automatic Shut-off Valve prevents oil flow when unit is not operating.

**ATTRACTIVE, COMPACT!** The G-E Oil Warm Air Furnace is small and smart-looking. The handsome grey finish will blend with any decorative scheme. You'll be able to have a basement that's as clean and attractive as any part of the house. You get additional living space.



G-E Oil Warm Air Furnace is a completely coordinated design with no waste space. It is completely factory-built and tested, shipped to you as a packaged unit.



FOR WARM AIR SYSTEMS



# gas warm air furnaces

## Dependability and Convenience . . . Economically

The General Electric Gas Warm Air Furnace does *more* than merely give you comfortable, automatic warmth. It makes summer spend the winter in your home! It's an extremely simple and compact unit that's easy to install. And it's completely modern!

Designed for use with G-E Air-Wall Heating or with standard forced warm air systems.



## HERE'S WHAT THE G-E GAS WARM AIR FURNACE DOES IN YOUR HOME . . .



**Heats!** Economically warms the air to the temperature you desire.



**Circulates!** Moves the warmed air gently throughout all the rooms in your home, for more even temperatures.



**Humidifies!** Healthfully moistens the air to relieve the dryness that's so unpleasant in wintertime.



**Filters!** Keeps air cleaner by forcing all return air through replaceable glass wool filters which strain out dirt and dust. You keep a cleaner house, with less dusting and vacuuming, lower cleaning bills.



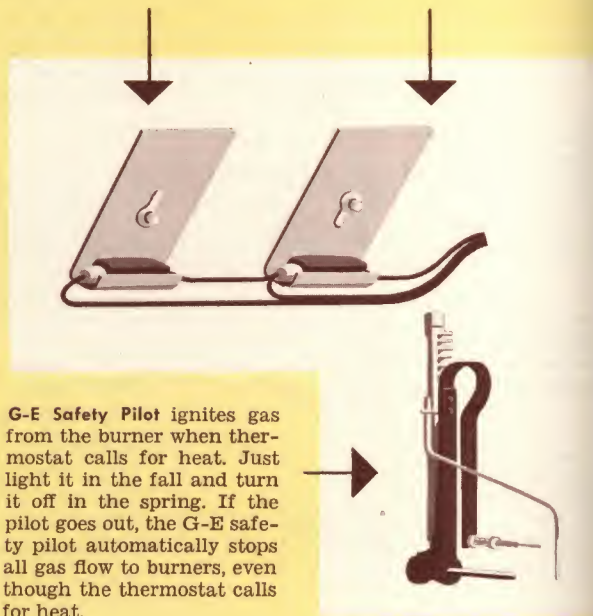
**Summer comfort, too!** Even in the summer, your G-E Gas Warm Air Furnace gives you greater comfort. During hot weather the fan may be kept operating alone, gently circulating air throughout the house.

## for dependability and convenience . . .

**G-E Fan Switch** automatically turns on fan when air in the unit reaches a comfortable temperature — turns it off after burner has stopped

and temperature in unit has cooled.

**G-E Limit Switch** automatically maintains normal operating temperatures.



**G-E Safety Pilot** ignites gas from the burner when thermostat calls for heat. Just light it in the fall and turn it off in the spring. If the pilot goes out, the G-E safety pilot automatically stops all gas flow to burners, even though the thermostat calls for heat.

## HOW G-E GIVES YOU ECONOMICAL HEAT . . .

Here's the famous G-E pin-point heat transfer surface. It quickly warms the air which passes over the "pin-points." G-E design gives you a compact unit that furnishes more heat from less fuel.



**ATTRACTIVE!** The blue-grey finish of the G-E gas furnace blends beautifully with any decorative scheme. Small, compact!

**Completely Coordinated Unit** with no waste space. The G-E gas furnace is tailor-made to solve your home heating problems.



FOR STEAM, VAPOR, HOT WATER,  
AND RADIANT PANEL HEATING SYSTEMS



# gas boilers

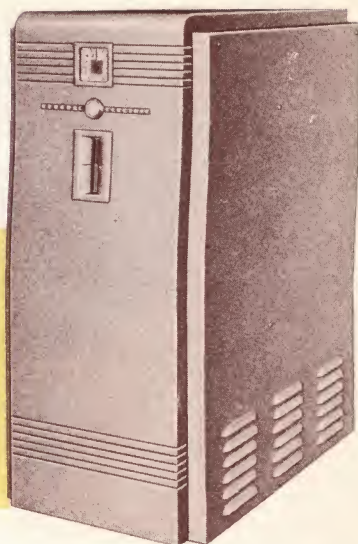
**QUICK, QUIET...**

## **ECONOMICAL GAS HEAT**

The new General Electric Gas Boiler *comfort-conditions* your home. It's small and compact, gives you clean, trouble-free heat... gives you maximum heating value from the gas flame.

### **Completely coordinated design!**

No waste space.  
Tailor-made to  
solve your home  
heating problems.  
Quick and easy  
to install.



**Dependability and convenience  
with these G-E automatic controls!**

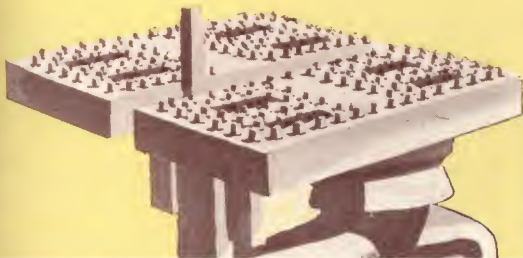
### **quick heat!**

... because General Electric engineers have designed a highly efficient heat transfer unit. Unique, diamond-shaped, cast-iron projections break up the hot gases and force more heat, quickly, to the water-backed surfaces of the boiler and then into the rooms of your home.

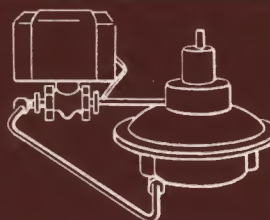
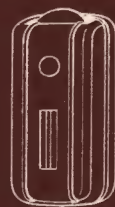


### **quiet heat that's clean!**

All burners in the G-E Gas Boiler are designed and sized to burn completely the specific type of gas used in your area. That means you get even, smooth ignition and quiet-burning flames. Careful attention to gas combustion design details throughout the boiler maintains the inherent cleanliness of gas as a fuel.

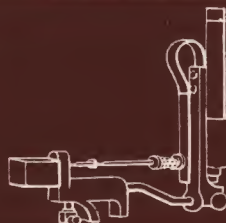
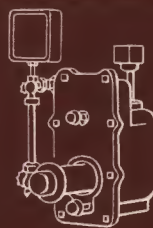


**G-E Room Thermostat** permits you to set and hold the desired room temperature.



**G-E Governor** regulates gas pressure, automatically turns gas off when house has reached proper temperature. If there is a power failure, gas flow can be controlled manually.

**G-E Low Water Cutoff Assembly**—stops gas supply when water level drops too low, prevents the burner from starting until water level is brought up to proper level.



**G-E Thermostatic Safety Pilot** ignites the gas when thermostat calls for heat, turns off gas if the pilot goes out.

**TROUBLE-FREE!** Many case histories on file back the reputation of the G-E Gas Boiler for reliability. They show years of continuous, trouble-free operation. Here is a unit that assures you of clean, comfortable, even, automatic heat!

**ECONOMY!** Take advantage of all the benefits of gas as a fuel with the G-E Boiler. It delivers maximum heating comfort at low fuel cost.

**GOOD LOOKING!** The clean, blue-grey finish of G-E Gas Boilers blends well with any decorative scheme. When you own one, it's easy to change your cellar into a basement playroom.



# before you build

**Check these G-E Automatic Home Heating Features —**

- Lower fuel costs
- Space-saving compactness
- Clean, quiet heat
- Automatic comfort controls
- Safe, dependable operation
- Fast, even heat
- Long-life construction
- Attractive, durable cabinets
- Reliable, coordinated design
- Fast, easy installation

► *For low cost, dependable steam, vapor,  
hot water, or radiant panel heating—*

**G-E OIL AND GAS BOILERS**

► *For dependable, economical  
warm air heating—*

**G-E OIL AND GAS WARM AIR FURNACES**

► *For greater comfort with forced  
warm air and radiant heat—*

**G-E AIR-WALL HEATING**

**Further information may be obtained from any of the General Electric Company District Offices listed below:**

**ATLANTA 3, GEORGIA**  
410 Red Rock Building  
Tel: Walnut 9767

**BOSTON 15, MASS.**  
700 Commonwealth Avenue  
Tel: Commonwealth 6-5722

**CHICAGO 54, ILLINOIS**  
The Merchandise Mart  
Room 1127  
Tel: Delaware 8510

**CINCINNATI 2, OHIO**  
617 Vine Street  
Room 1328  
Tel: Parkway 3431

**CLEVELAND 14, OHIO**  
925 Euclid Avenue  
Room 524  
Tel: Main 0564

**DALLAS 2, TEXAS**  
903 Ross Avenue  
The Norman Building  
Tel: Central 4182

**DETROIT 2, MICHIGAN**  
General Electric Supply Corp.  
680 Antoinette Street  
Tel: Trinity 5-9400

**KANSAS CITY 6, MISSOURI**  
106 West 14th Street  
Suite 2510  
Tel: Victor 9745

**LOS ANGELES 15, CALIF.**  
1233 South Hope Street  
Tel: Richmond 9371

**NEW YORK 22, NEW YORK**  
570 Lexington Avenue  
Tel: Plaza 5-1311

**PHILADELPHIA 22, PENNA.**  
1405 Locust Street  
Tel: Pennypacker 5-9000

**PITTSBURGH 22, PENNA.**  
535 Smithfield Avenue  
Tel: Atlantic 6400

**ST. LOUIS 8, MISSOURI**  
3824 Lindell Boulevard  
Tel: Lucas 2778

**SALT LAKE CITY 9, UTAH**  
200 South Main Street  
Tel: 4-1891

**SAN FRANCISCO 6, CALIF.**  
235 Montgomery Street  
Tel: Douglas 3740

**SEATTLE 4, WASHINGTON**  
211 James Street  
Tel: Seneca 8300

**WASHINGTON, D. C.**  
806—15th Street, N. W.  
Tel: Executive 3600

**GENERAL  ELECTRIC**

**AUTOMATIC HEATING DIVISION**

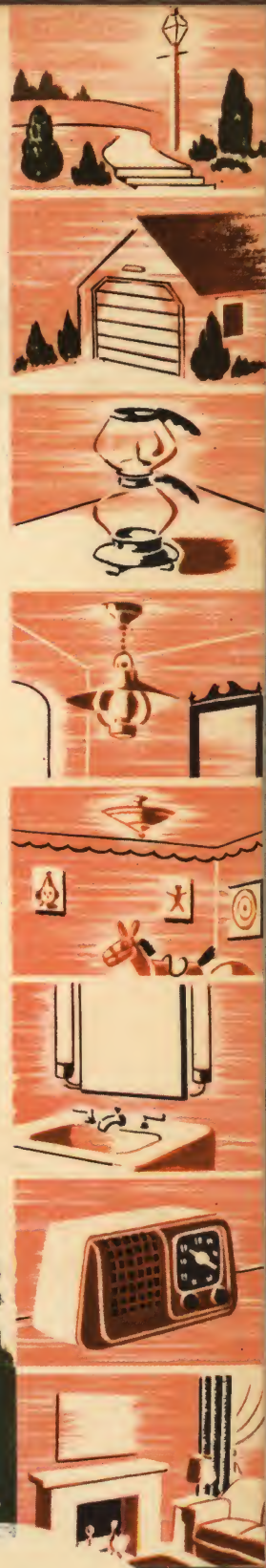
**5 Lawrence Street • Bloomfield, New Jersey**



ALL ABOUT

# MAGIC WAND

FOR YOUR  
HOME



THE NEW  
GENERAL ELECTRIC  
REMOTE CONTROL  
WIRING SYSTEM





Building a new home or modernizing your old one... living  
on a farm or in an apartment house... the G-E Remote Control  
Wiring System can save you many unnecessary steps, can  
bring you a new concept of modern electrical living.



#### WHY DO WE CALL IT A "MAGIC WAND"?

The General Electric Remote Control Wiring System permits you to turn electricity ON or OFF, easily and simply... like waving a magic wand. With the Remote Control Wiring System, switches can be placed in many handy locations to control lights or outlets. There is no limit to the number of switches you can install for any light or outlet.



A remote control wiring system can be designed to bring you a new concept of electrical living. It can permit you to start breakfast coffee in the kitchen by pressing a switch in your bedroom; to turn off your radio from telephone location; or to floodlight the yard by a switch in the master bedroom. Certainly you will have a new pathway of light through your home for added comfort and safety.



#### WHERE WOULD IT FIT INTO YOUR HOME?

Everywhere—in living room, dining room, bedroom, bath, kitchen, attic, cellar, and garage; for lights or outlets in all places where it would be handy to turn electricity ON or OFF. The G-E Remote Control Wiring System permits plenty of switches... at every logical spot. Remote Control switches are not only good-looking... they're inexpensive, too.



Fundamentally, the principle of remote control is not new. It is everywhere, day in and day out, to operate many well known things. The dial telephone, for example, uses the remote control principle. Turning the telephone dial sends electrical impulses to the central switchboard, which in turn connects you with the number you want. The G-E Remote Control Wiring System works on the same principle but was designed to control lights and outlets in homes, offices, and factories.





Remote control permits efficient multiple switching—simply, economically.



Remote control eliminates unnecessary steps thereby reducing hazards that cause accidents.



Remote control can easily be installed in existing homes, as well as in new ones.



Remote control adds safety—provides extra convenience and prowler protection.



Remote control is attractive—modern—adds to the value of your home.



#### IT'S EASY TO INSTALL

There is nothing difficult or complicated about the G-E Remote Control Wiring System. Your architect can design a layout to suit your particular needs, and your electrical contractor can install it with the same tools he has always used. It doesn't require additional knowledge, special study, or new techniques.

The G-E Remote Control Wiring System gives your home a new, up-to-date look. The switches are small, attractive, and modern. They are made of tan and ivory plastic to fit into any decorative scheme. Even four, five, or six grouped together look neat... take surprisingly little space.





# If your electrician isn't familiar with the General Electric Remote Control Wiring System he'll be glad to have the following information

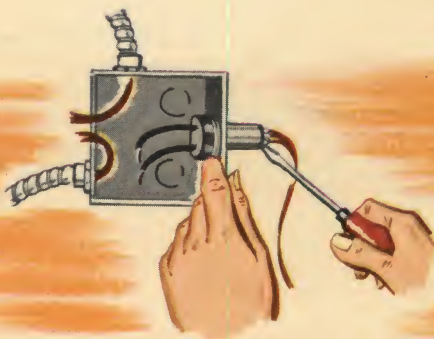
# 4

Only four parts are needed  
to install the G-E  
Remote Control Wiring System



## 1. THE SWITCH

The switch is a doublethrow (one way for ON, the other for OFF) momentary-contact switch. There are two types of these switches: one is for surface mounting or for shallow-partition installations, in which case a special switch box is used; the other is for flush mounting in standard boxes. Special ivory colored plates are provided for the switches. Both switches are small and have a neat appearance. They have binding screws for connection to the transformer, relays, or other switches. As many switches as desired may be connected in parallel, and as many as three relays can be controlled from one switch, using a recommended transformer.



## 2. THE RELAY

The relay is of split-coil design—one end to close the 125-volt circuit, the other to open the same circuit. It operates on 24 volts a-c, and has two leads for the 125-volt circuit and three binding screws for the low-voltage wiring. It is small enough to be mounted through a 1/2-inch knockout of a standard outlet box. This leaves the regular house-voltage end inside the box, while the low-voltage end protrudes outside. One binding screw is the center tap on the split coil, and the other two are for the OFF and ON ends of the coil.



## 3. THE REMOTE CONTROL WIRES

The remote control wires are either two- or three-conductor, thermoplastic insulated wires, grooved to permit easy separation of the conductors. These wires are very thin and flat, and are easy to install in new construction. They can be stapled to joists, beams, wall studs or sheathing or carried through studs by drilling 1/4-inch holes. In old construction they can be stapled to the surface; in plaster walls, they can be laid in a shallow groove and plastered over. In the three-conductor wire, one of the conductors is marked by an identifying rib.



## 4. THE TRANSFORMER

Only one specially-designed G-E transformer is required for the average home. Farm or industrial installations may need additional transformers depending on the length of run, the number of relays, and the extent of the wiring system.

For complete information on the advantages of this modern method of house wiring, see your local electrical contractor; or, write to the General Electric Company, Construction Materials Department, Bridgeport, Connecticut.

GENERAL  ELECTRIC





*Bathroom Accessories are important!*

**HALL-MACK**

*manufactures America's foremost line of*

**BATHROOM ACCESSORIES  
and MEDICINE CABINETS**



# Bathroom Accessories are IMPORTANT

OF ALL THE ROOMS in your new home, two—the bathroom and the kitchen—are styled and equipped to last a lifetime. The bathroom accessories and medicine cabinet you choose today will do much to determine the appearance and convenience of your bathroom for years to come. The accessories add the *finish* to the bathroom and their style sets the particular tone you wish to achieve. You seldom “do over” your bathroom as you do over the dining room or change the drapes in the living room. That’s why it is essential that you choose these accessories with a careful eye for quality and design. For twenty-seven years Hall-Mack has manufactured accessories with this “lifetime quality” as a standard. Each accessory speaks of quality that endures...and designs that will be as pleasing in ten or twenty years as they are today.



## WHAT ABOUT STYLE?

SOUND, TASTEFUL STYLING—whether in furniture, architecture or bathroom accessories—never becomes dated. Because of elegant simplicity, basically good proportions, and excellence of craftsmanship—Hall-Mack Bathroom Accessories will not become obsolete or outmoded. Even their style is crafted to “wear well.” And in them you’ll find—as have countless thousands of home owners—the permanence, beauty and service you’re looking for.

## WHAT TO LOOK FOR IN CONSTRUCTION

GOOD MATERIALS and fine workmanship give you a lot more in lasting good appearance and lifetime service. Over a period of time, the “underneath” quality in bathroom accessories will quietly speak for itself. The heavy construction and multiple polishing and plating of Hall-Mack fixtures mean lifetime brilliance, beauty and service in your bathroom. Simple, clean lines make for easy cleaning. Simplified installation eliminates troublesome building problems. As a home builder, these are the things for you to look for in bathroom accessories. Hall-Mack provides them all.

## How to plan your bathroom accessory needs...

It’s A WISE home-builder who keeps an eye cocked toward extra service and convenience features in the bathroom he plans. That *extra* medicine cabinet accommodates an expanding family, overnight guests, or the drug store’s week-end bargains. Those *extra* towel racks save hurried steps to the linen closet. That Adjustable Towel Rack proves to be worth its weight in downright practicality. A glass shelf makes room for cologne bottles that are well worth displaying. A recessed

shelf over the bathtub—in addition to the soap-and-grab-bar—will soon make itself indispensable. In other words, plan on what you *think* you’ll need—then add a few extras. A small additional investment *now* will pay big dividends in luxurious service for years to come!

Hall-Mack products are sold by dealers in the plumbing, hardware and hardware trades throughout the United States.

YOUR BATHROOM DESERVES THE BEST

**HALL-MACK**  
TRADE MARK REG. U. S. PAT. OFF.



# CONCEALED LAVATORY UNIT

One of the most practical—and popular—accessories in the Hall-Mack line is this Concealed Lavatory Unit. Soap, tumbler and toothbrush are ready at the touch of a finger...yet smartly concealed from view when not in use! These bathroom necessities are mounted on a chromium-plated panel which revolves so as to entirely conceal them when not needed. When the unit is closed, only the chromium panel surface is visible. The soap tray is removable for easy cleaning. This unit is designed so that it is perfectly suited for use with all other Hall-Mack Accessories.



No. 338



Open—ready for use



Turned at the touch of a finger



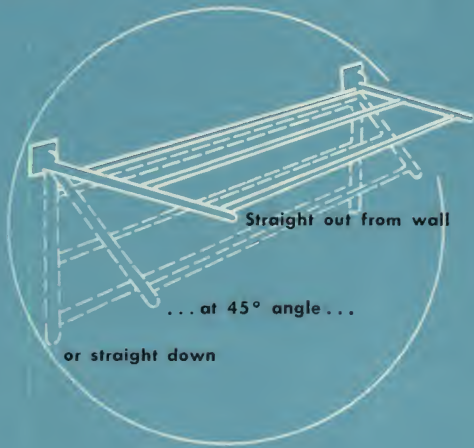
Closed—flush with wall

# ADJUSTABLE TOWEL RACK



No. 688

No more laundered hosiery hanging across shower bars or dangling from coat hangers on door knobs.  
No more lumpy piles of towels crowded onto inadequate racks.  
This Hall-Mack Adjustable Towel Rack has a variety of important uses. It is adjustable to three positions—straight out, 45°, or down...with a simple pressure of the fingers. It provides extra towel bar room when needed, and it drops down out of the way when not in use—an important feature where bathroom space is limited.

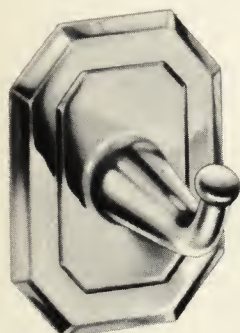




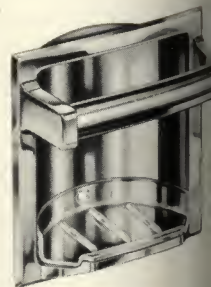
# ARISTOCROME

## ACCESSORIES

Aristocrome Accessories are styled along simple, classic lines. Base plates are octagonal in shape with beveled edges. All Aristocrome Accessories are forged of solid brass, which provides a very close-grained hard surface and takes a high polish and more brilliant chromium finish. A full selection of surface and recessed fixtures is available, with a representative group shown here.



SINGLE HOOK  
No. 381

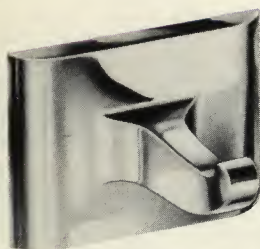


SOAP AND GRAB  
No. 365

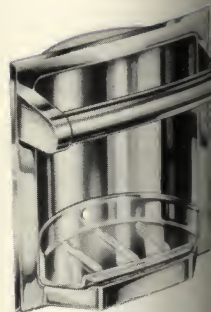
# Coronado

## ACCESSORIES

Coronado Accessories have a distinctive modern styling. Base plates are rectangular in shape, with clean, smooth-curving lines. Coronado surface fixtures are of cast Zamak metal. Castings are hand polished, copper plated, nickel plated and heavily chrome plated. Recessed fixtures in the Coronado line are made of solid brass, polished before nickel and chrome plating. Coronado Accessories are economically priced.



SINGLE HOOK  
No. 681

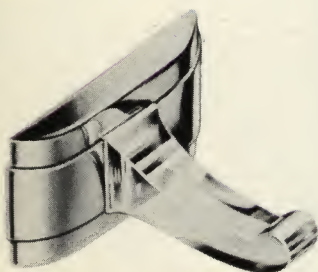


SOAP AND GRAB  
No. 665

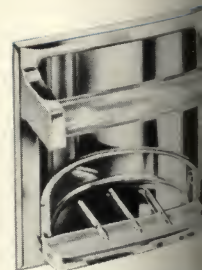
# Crystalcrome

## ACCESSORIES

Crystalcrome Accessories offer a sparkling jewel-like design that adds a dramatic new touch to bathroom styling. Crystalcrome is a combination of lustrous chromed brass and clear, sparkling crystal Lucite. Design is carried out along clean, modern lines to achieve utmost beauty. The base plates of Crystalcrome are of solid forged brass, and the clear, molded crystal portion is sturdy Lucite. All recessed Crystalcrome Accessories are of chromium-plated solid brass, with crystal Lucite trim.



SINGLE HOOK  
No. 181

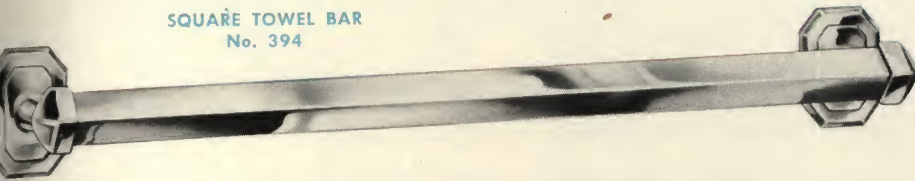


SOAP AND GRAB  
No. 165

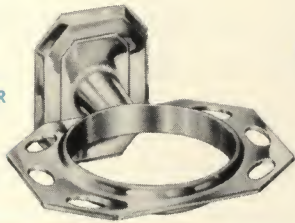


# HALL-MACK

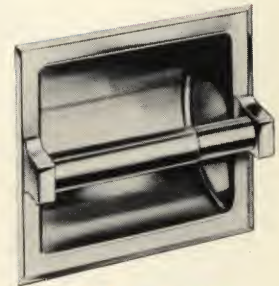
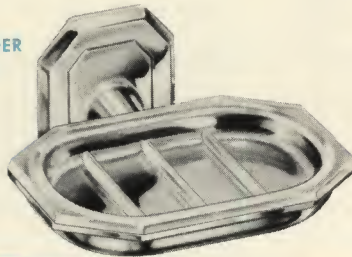
SQUARE TOWEL BAR  
No. 394



TUMBLER AND  
TOOTHBRUSH HOLDER  
No. 330

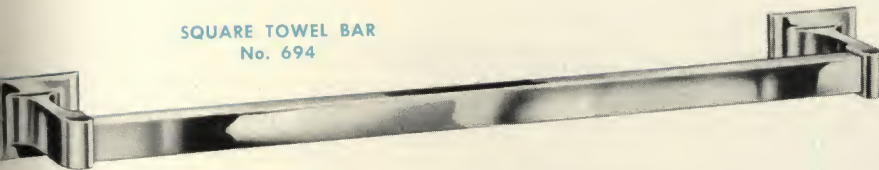


SOAP HOLDER  
No. 322

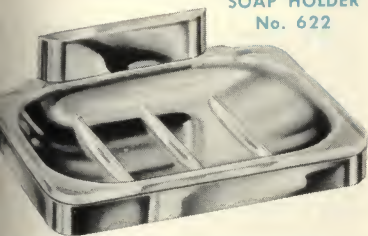


PAPER HOLDER  
No. 375

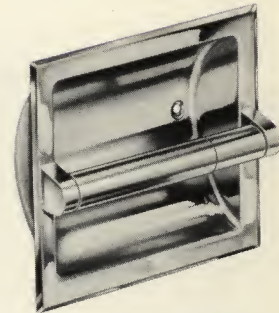
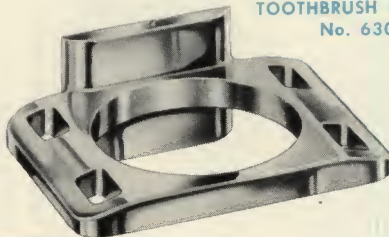
SQUARE TOWEL BAR  
No. 694



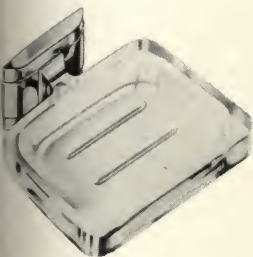
SOAP HOLDER  
No. 622



TUMBLER AND  
TOOTHBRUSH HOLDER  
No. 630



PAPER HOLDER  
No. 675

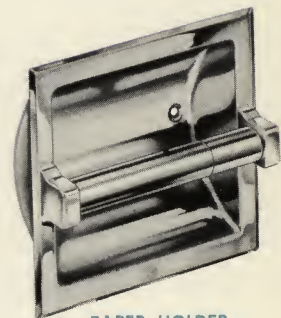
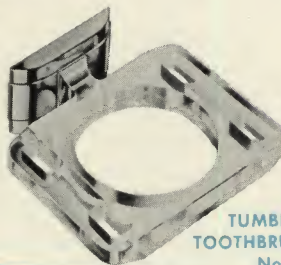


SOAP HOLDER  
No. 120



RECTANGULAR TOWEL BAR  
No. 192

TUMBLER AND  
TOOTHBRUSH HOLDER  
No. 130



PAPER HOLDER  
No. 175

Pictured on these pages are only a few representative accessories. Ask your plumbing, tile or hardware dealer to show you the complete Hall-Mack catalog.

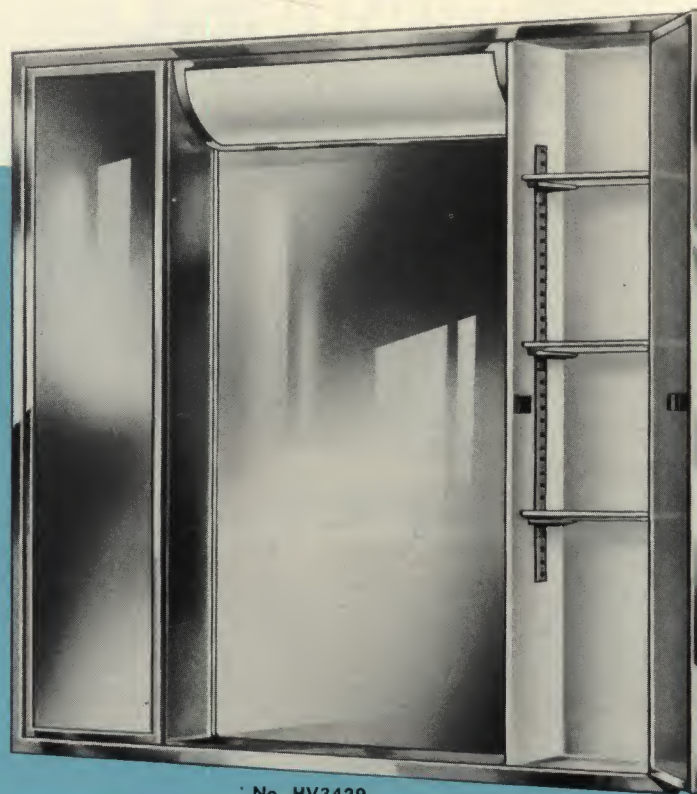


# Bathroom Cabinets by **HALL-MACK**

TRADE MARK REG. U. S. PAT. OFF.

THERE ARE NO FINER medicine cabinets available than Hall-Mack.

Lifetime porcelain or baked enamel interiors, seamless cabinet bodies, chromium-plated channel-bound mirror doors, better, more efficient lighting — these are important features you find in Hall-Mack Cabinets. In the wide selection available you'll discover the cabinets to fit perfectly into your bathroom furnishing scheme, and perfectly, too, into your building budget. Three Hall-Mack models are described on these pages, and detailed information on many other models is available on request.



No. HV3429

## HOLLYWOOD VANITY

Here is the aristocrat among bathroom cabinets! In the center is a large recessed mirror, indirectly illuminated overhead by a light concealed in curved opal glass. Mirrors line the sides, and on either side of the recessed mirror are full-length mirror-bound doors to

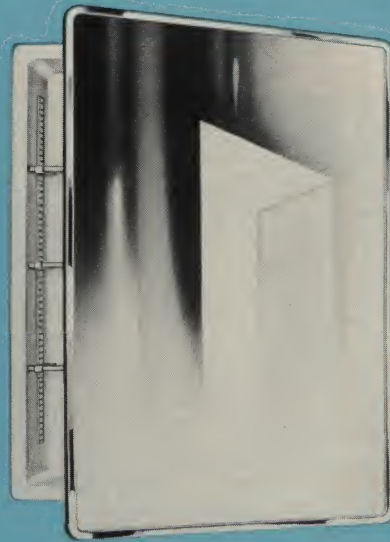
the two cabinets. Each compartment has three full-length adjustable glass shelves and a toothbrush holder. There's a handy mirror shelf below the large mirror. Baked enamel interior, light switch and convenient electrical outlet, heavy chromium plating on solid brass, and chrome-bound mirrors are other important Hall-Mack features that make the Hollywood Vanity the finest obtainable for modern residences.



## SEAMLESS STEEL CABINETS WITH LIFETIME PORCELAIN INTERIOR



No. FLP1826



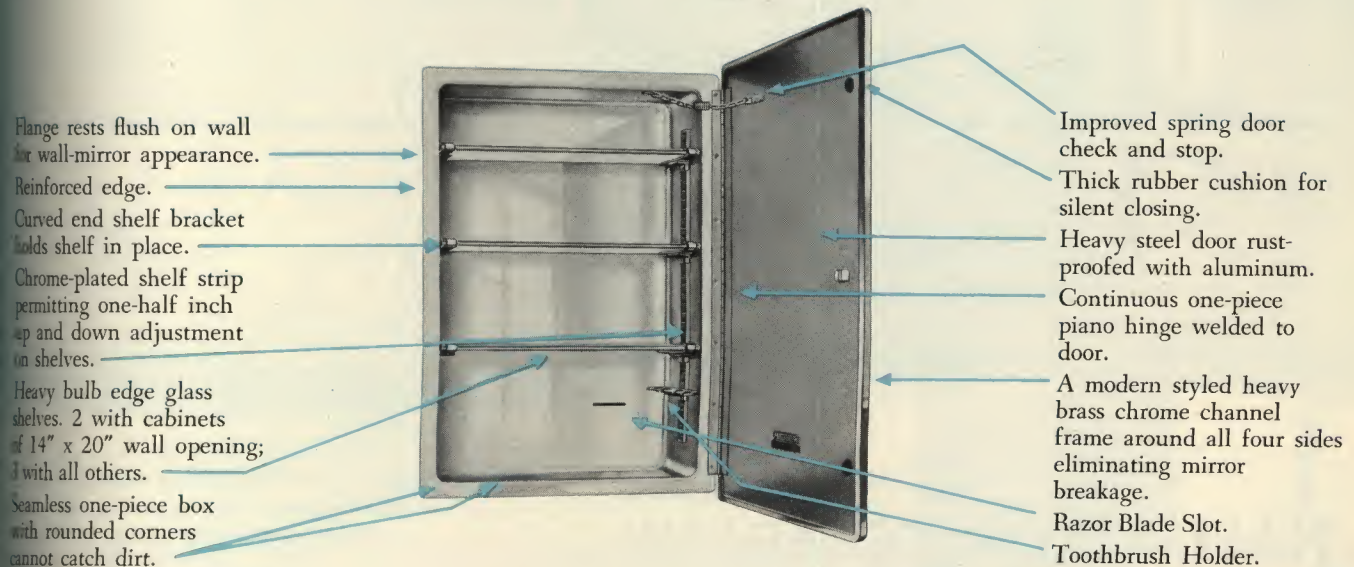
No. P1826

Hall-Mack is the originator and leader in porcelain enameled seamless steel cabinet construction. There are no dirt-catching cracks, crevices or corners. Three gleaming coats of vitreous porcelain are furnace-fused to the interior—gleaming white, easy to clean! Covering the steel door is a brilliant full-length plate glass mirror bound with a chromium-plated brass frame. A

continuous one-piece piano hinge guarantees smooth opening and closing of the door. There are three adjustable glass shelves.

The fluorescent lighted model (above left) has a half pillar of concealed fluorescent light on each side . . . incomparable for shaving or make-up.

## Seamless Porcelain Interior



YOUR BATHROOM DESERVES THE BEST

# HALL-MACK

TRADE MARK REG. U. S. PAT. OFF.



# Bathroom Specialties by **HALL-MACK**

## RELAXATION UNIT

For those who want the ultimate in bathroom comfort, the exclusive Hall-Mack Relaxation Unit provides compartments for paper, cigarettes and ash tray, and the mirror-backed center section can be used for books, small magazines, decorative toiletries or a potted plant. The fixture is reversible for right or left side location of paper holder.

The Lucite Magazine Rack, shown installed on the Relaxation Unit, holds large magazines or newspapers. It can be added to the recessed unit at any time, but cannot be installed without the recessed unit.

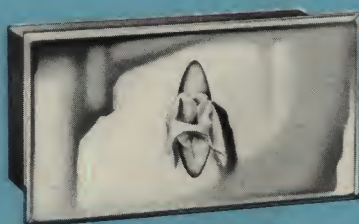


No. R-300

No. R-300



No. R-307



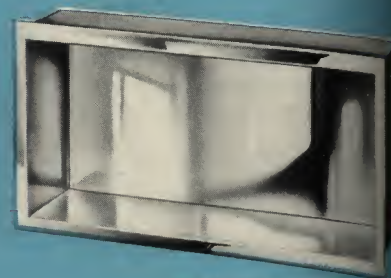
No. K-319

## RECESSED MIRROR SHELVES

Decorative value and real usefulness are combined in these Hall-Mack recessed units. Miscellaneous decorative toiletries are instantly within reach. Flanges and shelf rests are of chrome-plated brass—mirrors line the back and sides.

## RECESSED KLEENEX HOLDER

This useful unit is another Hall-Mack product that "completes the picture" in fine bathrooms. Nothing shows but the gleaming chrome-plated brass panel, set flush in the wall. Disposable tissues are always handy. The face plate is easily removable for reloading the container behind.



No. R-305

## HALL-MACK COMPANY

1344 WEST WASHINGTON BOULEVARD, LOS ANGELES 7, CALIFORNIA

7455 EXCHANGE AVENUE, CHICAGO 49, ILLINOIS

HALL-MACK BATHROOM ACCESSORIES are attractively displayed at tile, hardware and plumbing supply dealers throughout the United States. Your dealer will be glad to assist you in making the best selection of Accessories for your bathroom needs.

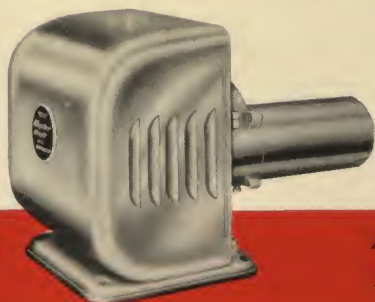




# **Master Kraft**

REG. U. S. PAT. OFF.

# *Automatic* **HEAT**



**OIL  
OR  
GAS**

*A MODEL FOR EVERY  
PURSE AND PURPOSE*



Manufactured by **HARVEY-WHIPPLE, INC.**, Springfield, Mass.



# Master Kraft

REG. U. S. PAT. OFF.

## SUN-BLAZE BOILER UNIT

**BEAUTIFUL and  
EFFICIENT!**

All the way from Maine to California, owners of Master Kraft Sun-Blaze Boilers are finding their fuel bills to be amazingly low. Never before in the history of the automatic heating industry have so many desirable features been included in one boiler design. Never before has any home heating boiler offered so much genuine value. For here, enclosed in one strikingly handsome jacket — is the most advanced design in heating apparatus that engineering brains have been able to devise — all the equipment you need to generate ample heat and domestic hot water, and do it superlatively. Once installed in your basement, the Sun-Blaze principle goes to work quietly and efficiently, taking over your heating tasks — giving perfectly controlled automatic oil heat at a cost so low that you will wonder why you ever got along with the old fashioned kind of boiler or furnace.

**TAKES UP ONLY SMALL SPACE.** The Master Kraft Sun-Blaze Boiler unit is so compact in design that it occupies only a portion of the space formerly taken up by large, old fashioned boilers of equal heating capacity. In appearance, these boiler units are so handsome that they make a proud addition to the furnishings of any home.

**OWNERS OF THESE MODERN Master Kraft** boilers are delighted with the very substantial reduction in fuel bills brought about by the Sun-Blaze principle, designed and built into these boilers. Read, on back page, letters from typical happy Master Kraft owners.

**AVAILABLE IN THREE SIZES:** Model 325, for heating homes having not over 325 feet of standing steam radiation, or 520 feet of standing hot water radiation. Model 450, for homes having over 450 feet of standing steam radiation, or 720 feet of standing hot water radiation; and, Model 750, for buildings not over 750 feet of standing steam radiation, or 1200 feet of standing hot water radiation (hot water rating based on 150 Btu emission per square foot of radiation).



### SUPER-SAFETY with the ELECTRONIC CONTROL

The Super-safe Electronic Control pictured here is the most advanced safety control for oil burner operation that money can buy. It employs an "electric eye" to watch the flame every second it burns. Designed to give split-second ignition safety action — works three times as fast as the ordinary stack control on safety shutdown. This control is available on some models of Master Kraft heating products when specifically ordered.

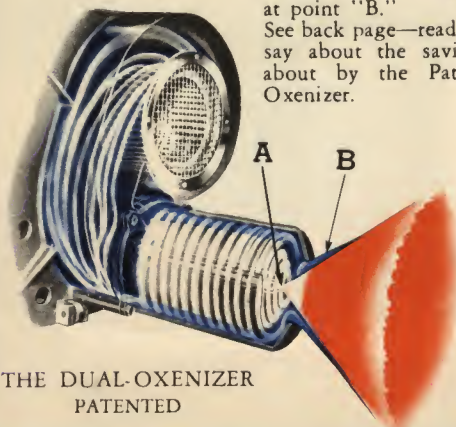


### AMAZING ECONOMY with the DUAL-OXENIZER PATENTED

This simple device, with no moving parts — gives a *double charge of oxygen to the oil* — produces the hottest oil fire ever developed — gives astonishing heat from small amount of fuel. First charge of oxygen is whirled into oil spray as it leaves the nozzle, at point "A."

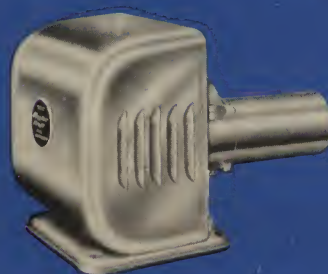
Second charge of oxygen is whirled into outer areas of flame at point "B."

See back page—read what owners say about the savings brought about by the Patented Dual-Oxenizer.



THE DUAL-OXENIZER  
PATENTED

### OTHER MASTER KRAFT



Master Kraft conversion oil burners, available in many models, are extremely economical and reliable. Have numerous patented features.



Master Kraft conversion burners have latest features will fit almost any boiler or furnace.



# Master Kraft

REG. U. S. PAT. OFF.

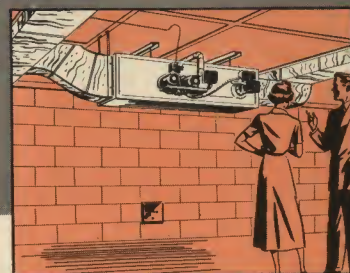
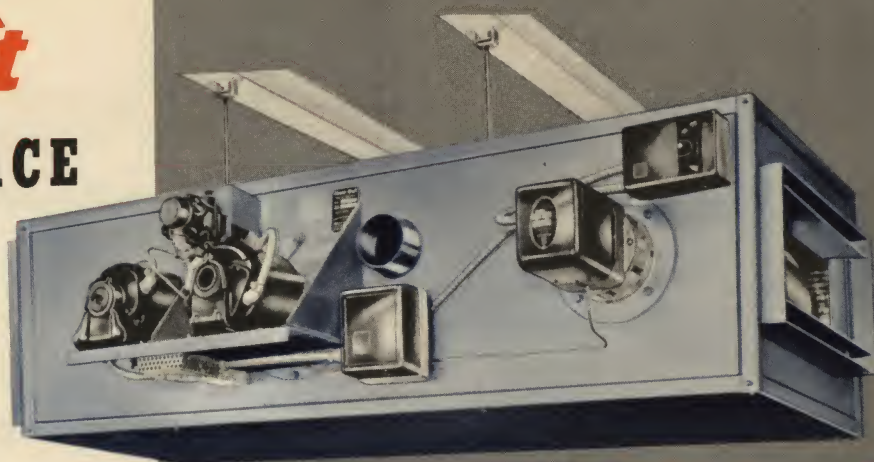
## WARM AIR FURNACE

**HANGS up . . .  
or STANDS up !**

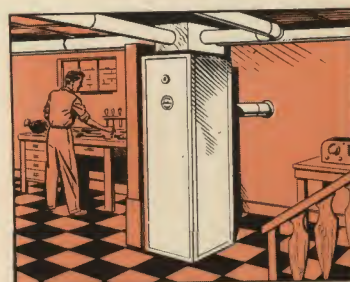
**DON'T USE FLOOR SPACE!** This package of heat is the very latest thing in a warm heating plant for your home — will give you plenty of uniform heat at lowest possible cost — and best of all, you may hang it up out of the way, leaving every inch of your basement floor free for utility purposes. You may suspend it in the basement — or stand in the corner — or even lay it flat in the attic. Also ideal for ranch-type houses, or farm homes with no basements. Heat distribution to rooms is through conventional flat ducts, or, if desired, through inexpensive six-inch round pipes. Has low pressure-atomizing oil burner, amazingly economical and operates for any heating requirement.

**MAY BE INSTALLED IN CONVENTIONAL WAY.** This package of heat is only 18" across the front, takes a very small space when installed as a "stand-up" unit in basement, utility room, or a closet.

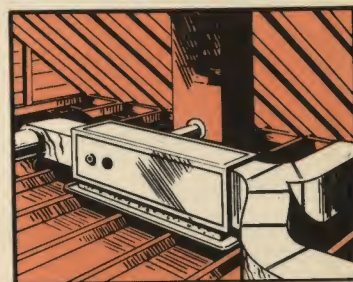
**CHIMNEY NOT REQUIRED!** This amazing new Master Kraft unit *creates its own draft*, can be operated without benefit of chimney draft. Of course it must have an exhaust pipe to conduct combustion gases out-of-doors and beyond the roof line — thru a simple inexpensive exhaust pipe (where building regulations permit). You locate this unit where you please — and not to suit the location of an existing chimney!



You may hang it  
in your basement



. . . or stand it up  
in the basement



. . . or install it in the  
attic as shown here!

### See where it will fit

Three views at right show the adaptability of the Master Kraft VCF unit. It does the job where no other heating plant will fit in.

### Other Warm Air Heating

*Units* in the Master Kraft line are pictured below — both for gas, and for oil. Each one has numerous money-saving features built into it — based on our twenty-seven years' experience exclusively in the automatic heating field.

Before you buy any furnace, boiler, or conversion burner, get the whole story from your Master Kraft dealer or write us direct.



## PRODUCTS FOR OIL OR GAS FIRING



See  
**WHAT  
USERS  
SAY —**  
next page

Master Kraft Gas furnaces, lo-boy or  
designed for highest efficiency.

Master Kraft oil-fired Warm Air Conditioners,  
available in a complete range up to 150,000 Btu.



# Read what these Owners Say...

## ABOUT **Master Kraft** SAVINGS:



### IOWA Newspaper Editor Says "Economical Beyond Belief"

Mr. Everett Streit, prominent newspaper man of Clinton, Iowa, writes, "Let me take this opportunity to express my complete satisfaction with the Master Kraft oil burning boiler unit installed in my new home. Its performance has been flawless, and even more satisfying is the fact that it is economical beyond belief. I will not hesitate to recommend this particular installation to anyone who wants perfect heat at a budget figure."

### Only 30c a day for all heat and hot water!

Mr. George Watkins, Jr., of Emporia, Virginia, writes, "I want to compliment you on the Master Kraft unit installed in my new home . . . it has consumed only 350 gallons since 4th of September, 1948 to February 18, 1949 . . . remarkable, as it also furnishes hot water for kitchen and two bathrooms." *This means only 30 cents a day for heat and hot water!*



### VERMONT Resident Saves Over 34%

Mr. William E. Clark of Middlebury, Vermont, writes, ". . . last summer, we felt that a scientifically complete unit would be more economical to operate and consequently had a Master Kraft Sun-Blaze Boiler installed in our home of eight rooms . . . have kept accurate records . . . pleased and amazed to find that we have saved 34 $\frac{2}{3}$ % . . . on our fuel bill."

### ILLINOIS Doctor Saves \$85 First Season

A well known heating engineer of Waukegan, Illinois, writes, "On October 16, 1947, I installed a new Master Kraft burner in the residence of Dr. W. W. Billings . . . this replaced another burner . . . there was a fuel saving of \$85.00 the first heating season, with no service calls required . . . certainly a profitable burner for the customer to have."

*(Name of Engineer Supplied on Request)*



### INDIANA Owner Has Master Kraft Boiler in Attic

Mr. Kenneth Wells of Angola, Indiana, has installed the very latest heating system in his attractive home shown at left. Mr. Wells writes as follows: "We find the Master Kraft unit, in conjunction with radiators recessed in walls under windows . . . the most practical and efficient of all automatic heating units that can be obtained . . . unit located on second floor . . . unit is clean, neat, we do not notice any sound in the least."

### PENNSYLVANIA Owner Saves 35%!

Mr. Emil St. Onge, of Pottstown, Pennsylvania, whose home is shown at left, decided not to spend money repairing his old boiler, but instead purchased a new Model 325 Master Kraft Sun-Blaze Boiler Unit. He writes, "I am certainly very happy that I selected the Master Kraft Sun-Blaze Boiler, as I find that my fuel bills are cut 35% . . . and have eliminated the dirt and labor connected with the old method of heating."



### WASHINGTON

Mrs. S. C. Marshall, Tacoma, Wash., writes, ". . . are pleased with our wonderful new Master Kraft oil furnace . . . our former oil furnace cost us \$500 a year for fuel. Since our Master Kraft was installed we have used less than 5 gallons per day during unusually severe winter." This is a cost of only 65c per day!

Your Master Kraft  
Dealer will help you  
plan similar savings  
Call him . . . today!

### Uses only 11 gallons a week

A letter from Mr. Nicholas Luongo of Annapolis, Maryland, reads, ". . . from June 17, 1948 . . . to 6th of January, 1949 . . . find we used only 325 gallons fuel oil . . . to take care of my six room home, plus domestic hot water." This means only eleven gallons per week!

Manufactured by **HARVEY-WHIPPLE, INC.**, Springfield, Mass.



# *Moncrief*



AIR CONDITIONING FOR THE HOME ★ ★ ★ ★



# MONCRIEF

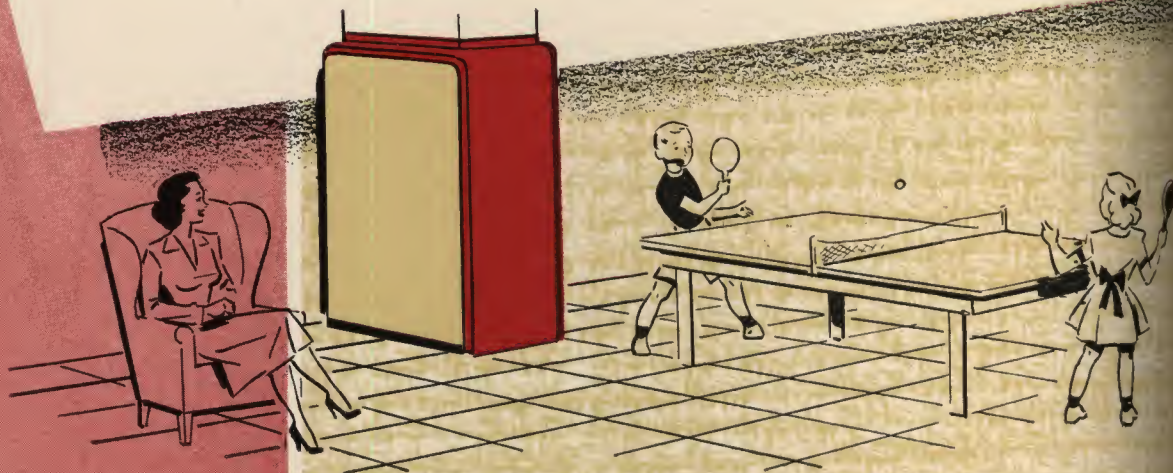
## "Years Ahead" Heating Equipment

If you're planning your new home, don't forget, it's the heating that controls your home comfort and enjoyment for many months of the year. So don't make the mistake of a "hit-or-miss" choice.

There are good reasons why after more than 50 years, more builders of homes keep specifying Moncrief heating and air conditioning equipment and—in greater numbers each year. Homebuilders have also learned through experience that Moncrief gives complete satisfaction—the only kind that you are going to be happy with.

This is the reason why it will pay you to have a Moncrief heating system in your home.

It will pay you dividends to take a few minutes to look over the entire line of Moncrief "Years Ahead" heating equipment described on the following pages—there's a Moncrief that's built to fit your heating requirements. Then consult your Moncrief dealer or mail us the coupon on the back cover.





## MONCRIEF "Years Ahead" Gas Fired Air Conditioning Unit

Ideal heating comfort—automatically controlled, is yours with this Moncrief "Years Ahead" Gas Fired Air Conditioning Unit.

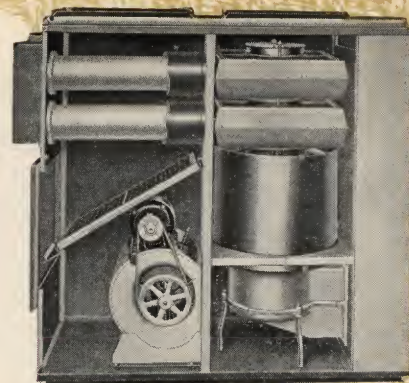
Have you ever seen a more attractive heating unit whose smart appearance is additionally enhanced by the beautiful, baked enamel finish of the cabinet.

Entirely concealed are all the automatic controls . . . the heating element . . . the silently operating, large-capacity air handling equipment air filters and humidifier, and Moncrief multi-port, ribbon-type burners for natural, manufactured and all types of mixed gases.

Moncrief Gas Fired Air Conditioning units are constructed with either a steel heating element that is welded leak-proof and gas-tight, or with a heavy cast iron heating element. All radiators are provided with readily accessible clean-out ports.

With a Moncrief Air Conditioning Unit your winter heating chore is to just set the room thermostat to your "comfort-zone" and let the automatic controls regulate and operate the system until the end of cold weather.

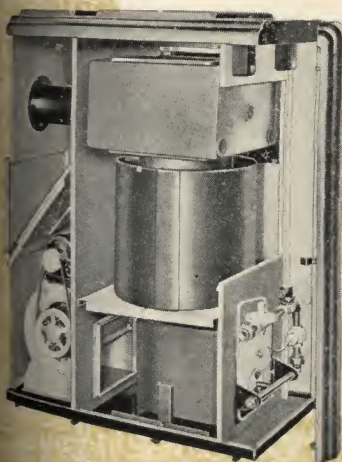
Units have a B. T. U. input range from 70,000 to 200,000 and bear the approval seal of the American Gas Association.



Interior view of Air Conditioning Unit with cast iron heating element.



The attractive, smartly styled Air Conditioning Unit.



Interior view showing steel heating element with rectangular radiator, controls, air handling equipment and large capacity air filter.

## MONCRIEF Utility Air Conditioning Unit

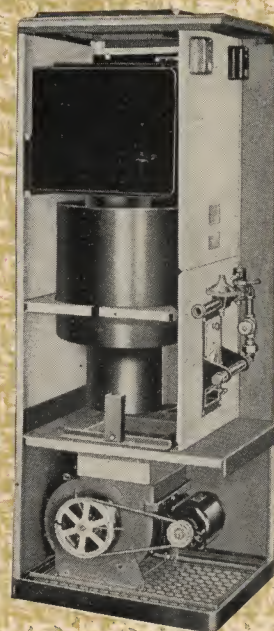
Where space is vitally important in your new basementless home plans, you can make no better choice than Moncrief's compact Gas Fired, Utility Air Conditioning Unit. You get all the same high-quality construction and operating features provided by Moncrief's gas-fired basement air conditioning unit.

With a Moncrief you can truly enjoy "Years Ahead" heating comfort in your home by merely setting the room thermostat to your "comfort-zone."

These automatic air conditioning units have been designed so they can be installed in a utility room or closet, with the recirculating air coming in at either side or at the bottom of the cabinet. The entire installation requires little space.

Moncrief gas-fired Utility Air Conditioning Units are constructed with either a steel heating element that is welded leak-proof and gas-tight, or a heavy cast iron heating element. All radiators are provided with readily accessible clean-out ports for ease of inspection and for cleaning if ever necessary.

Units range from 65,000 to 125,000 B.T.U. input and bear the seal of the American Gas Association.



Interior view shows steel heating element, controls and air handling equipment.



Front view of Utility Unit with burner controls concealed by the attractively designed cabinet.



## MONCRIEF Gas Fired Gravity Furnace

Moncrief's new, gas-fired gravity furnace will give you all the convenience and advantage of automatic gas heating at low initial cost and low operating cost.

You'll find that heating with a Moncrief gas-fired gravity heating is "clean gas heating". Wallpaper, drapes, curtains, in fact the whole house, including the basement, stay cleaner longer.

With a Moncrief gravity furnace there is nothing more to do than light the pilot—set the room thermostat to your "comfort-zone" setting—and your winter heating chores are done. Can you think of a more effortless convenience in your home?

Moncrief gravity furnaces are available with either steel heating elements or cast iron heating elements, whichever you prefer.

## MONCRIEF Oil Fired Gravity Furnace

Here is oil-fired gravity heating in truly economical form—Moncrief's oil-fired gravity furnace with Moncrief's sensational Pressure Vaporizing Oil Burner.

Designed for small homes, or larger homes with insulation, this furnace provides dependable heating, year after year and requires only a small amount of basement space.

In designing this unit Moncrief engineers spared nothing in the way of construction, material or equipment that would distinguish it from units much higher in price. This furnace has all the "Years Ahead" qualities so characteristic of all Moncrief heating equipment.

The Pressure Vaporizing Oil Burner is approved by Underwriter's Laboratories to burn the less expensive No. 3 fuel oil, as well as the lighter grades.



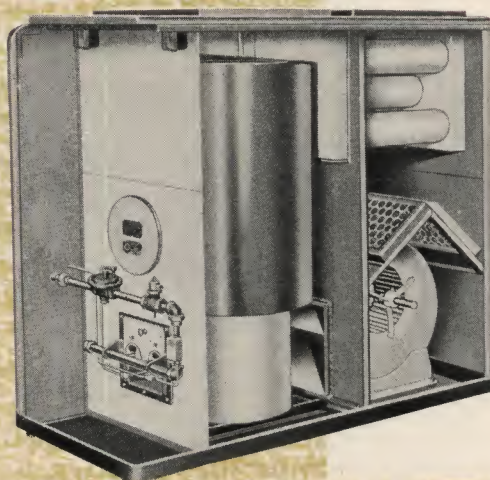
Oil-fired  
Gravity  
Furnace



Gas-fired  
Gravity  
Furnace



Interior view of gas-fired  
Gravity Furnace.



Interior view of gas-fired  
air conditioning unit.

**Another  
MONCRIEF  
"Years Ahead"  
Feature —  
The Majority of  
MONCRIEF Units  
Are Designed to  
Burn Either  
GAS or OIL**



# MONCRIEF Oil Fired Air Conditioning Unit with Gun Type Oil Burner

If your new home requires an Oil-fired air conditioning unit with large heating capacity, here's an attractive unit fired by a Moncrief gun-type oil burner that will bring you the utmost in heating efficiency and satisfaction.

This oil-fired unit is highly efficient in providing speedy, economical delivery of heat on those blustery winter days . . . circulating the warmed, healthful, humidified air throughout the entire house.

Home cleaning and home upkeep are reduced to a minimum, because Moncrief's steel, heat-producing elements are made leak-proof and gas-tight by submerged arc welding process. And—as in all Moncrief air conditioning units, large capacity filters remove dust, pollen and other impurities from the circulating air. An automatic humidifier provides the necessary moisture so necessary for healthful, home-heating satisfaction.

For the home without a basement, Moncrief builds this unit in the Utility Air Conditioning Model, as illustrated in the lower right corner. You can be assured of economical performance and long-lived, trouble-free heating satisfaction, whether your particular home requires the Utility or the basement model.

## The Oil Burner

The Moncrief Oil Burner is outstandingly "Years Ahead" in engineering features—features that will provide long years of trouble-free, economical heating service.

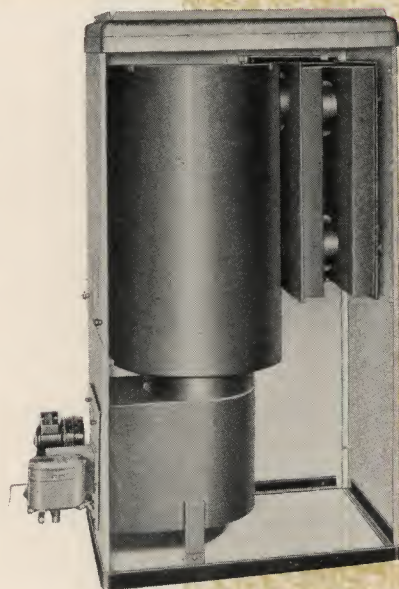
Efficient combustion is provided with the heaviest types of domestic fuel oils, which are generally lower in price. All operating parts of the burner are precision built, dynamically balanced for long life and quiet operation.

Inspection and servicing features are also "Years Ahead" with this Moncrief Burner. After installation the air tube never has to be disturbed. The complete burner chassis is mounted to the furnace on 4 heavy, positioning studs and is likewise completely removed by just removing 4 nuts from the studs—a distinctive Moncrief development in Oil Burners.

Giving the Moncrief customer a choice of fuel without having to tear down or replace the heating plant is another "Years Ahead" development in Moncrief heating equipment.

Most of the units in the Moncrief line have this important "Years Ahead" feature—they burn either Gas or Oil and can be converted from one fuel to the other at any time you desire to make a change.

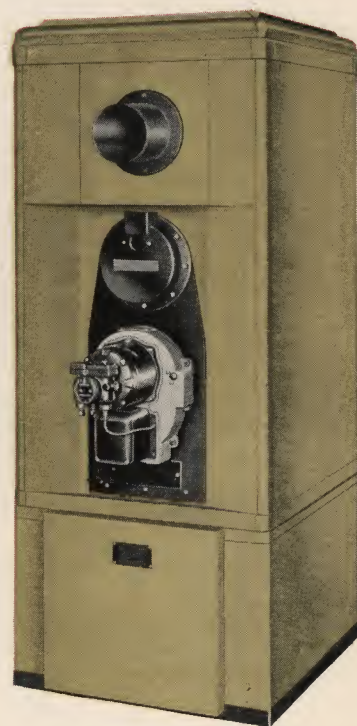
Moncrief oil burners and Moncrief gas burners operate with equal efficiency in the convertible Moncrief units. The Gas Fired Units are approved by the American Gas Association. Moncrief Oil Burners carry the listing of Underwriter's Laboratories Inc.



Interior view of gravity furnace with pressure vaporizing oil burner



Oil-fired Gun type basement air conditioning unit.



Oil-fired Gun type Utility air conditioning unit.





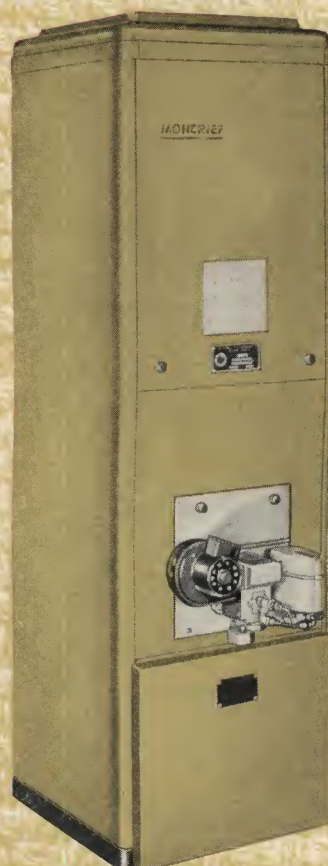
Front view of vaporizing oil-fired air conditioning unit.

## MONCRIEF Vaporizing Oil Fired Utility Unit

If you are planning a home without a basement, here is Moncrief's utility vaporizing oil-fired air conditioning unit that combines all the "Years Ahead" construction features of the basement unit described above.

This Utility unit is designed for installation where space, installation cost, dependability, and heating performance are most important factors. The unit requires a small amount of floor space and may be installed in utility room, hall or closet.

The Pressure Vaporizing Oil Burner in this, and all other models, bears the seal of Underwriter's Laboratories Inc.



Front view of vaporizing oil-fired utility air conditioning unit.

## MONCRIEF Vaporizing, Oil Fired Air Conditioning Unit

Now, no matter where you may build your home—a Moncrief vaporizing, oil-fired air conditioning unit will fit into your building budget as a surprisingly low-cost item. Your initial cost will be *low*—your operating cost will be *low* and your maintenance and upkeep will be *low*.

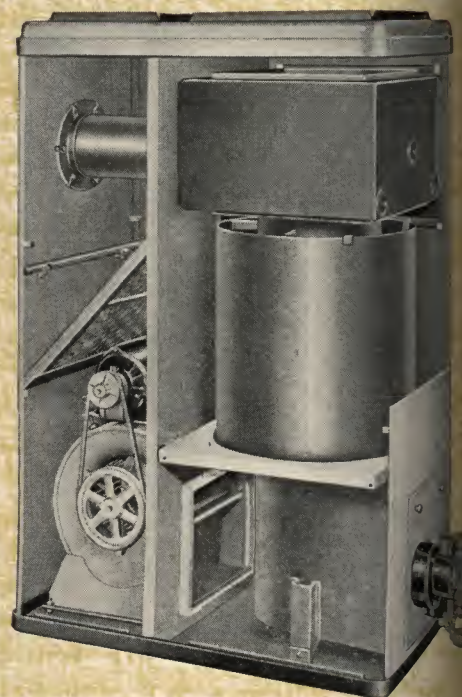
This Moncrief unit with Moncrief's vaporizing oil burner is really "Years Ahead" in providing the utmost in dependable year-in and year-out heating satisfaction.

The heating element, of heavy gauge steel is electrically welded into a gas-tight, leak-proof unit that has been scientifically constructed to extract all the heat possible from the burning fuel—and to do this for year after year. Long life is a proven characteristic of all Moncrief equipment.

### BURNS No. 3 FUEL OIL

An unusual advantage of this Pressure Vaporizing Oil Burner is its ability to burn No. 3 Fuel Oil—which is lower in cost—as well as the lighter grades.

This burner is simple to install because of a distinctive "mounting plate", which, when attached to the front of the furnace, places the burner in its proper position in the heating element. By loosening 4 screws, and detaching the oil line, the burner can be quickly removed for inspection or servicing, without disturbing the cabinet.



Interior view of vaporizing, oil-fired air conditioning unit.

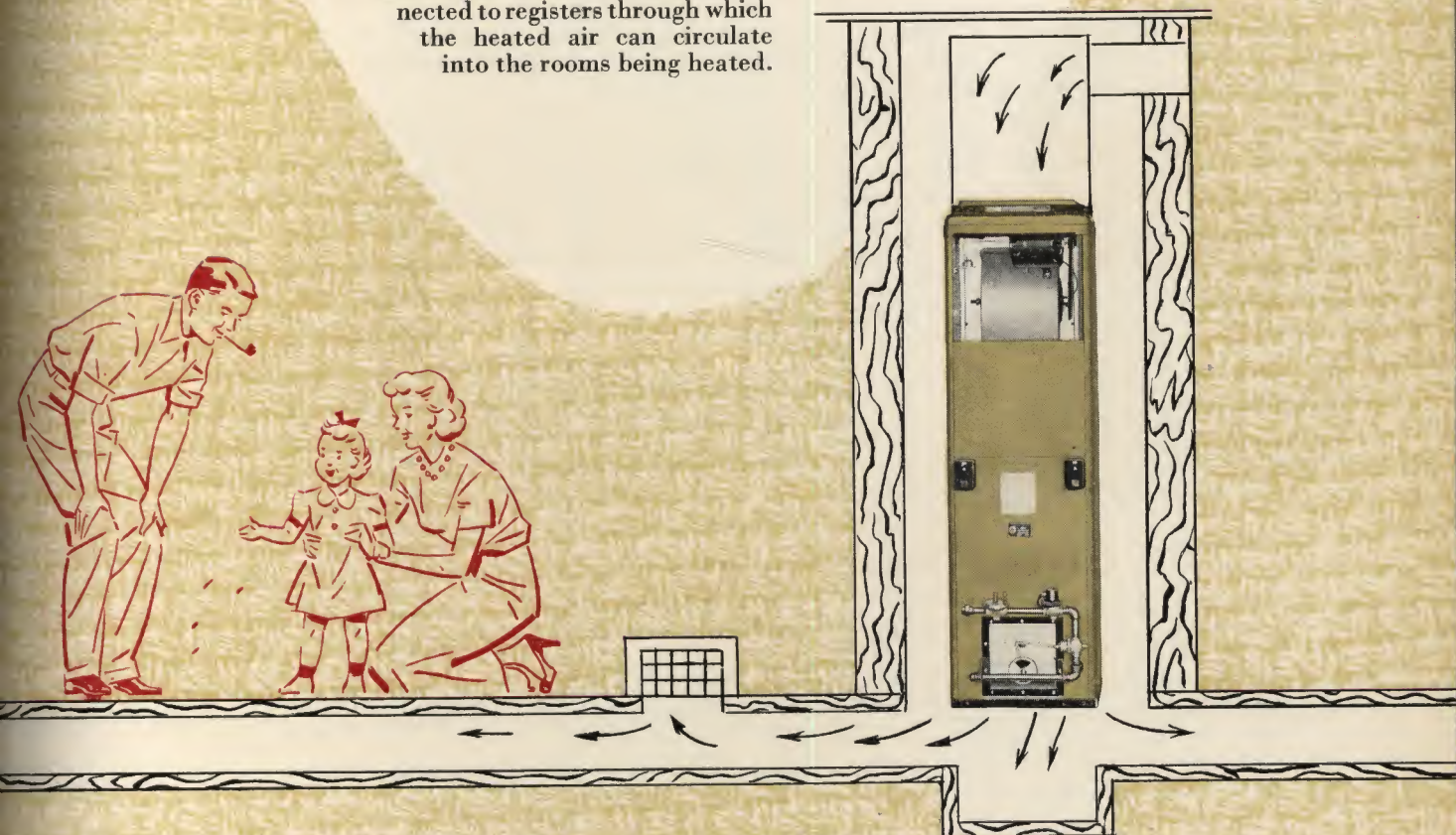


## Moncrief Counterflow Unit

The new trend in basementless home design where concrete slabs are used for the house floor, has been followed by a new trend in heating design and construction—equipment that is quick and economical to install . . . equipment adaptable to new style heating installations—Moncrief's Counterflow unit.

This uniquely engineered unit has the same, durable heating element as the regular utility unit and has the same attractive cabinet except that the blower fan is placed at the top of the cabinet above the heating element. This type of unit draws the return air into the top of the unit and blows the heated air downward into the heat-conveying pipes or ducts in or below the floor.

With this type of unit three types of heating installations can be made: You can have floor panel heating with the heat pipes imbedded in the concrete slab floor . . . or you can have warm air register heating by connecting these same heat pipes to room registers in wall or floor . . . or you can have an installation with the heat pipes installed under the slab floor in the crawl space, with the pipes connected to registers through which the heated air can circulate into the rooms being heated.



A gas-fired counterflow unit installed on a concrete slab floor with the heat pipes connected to wall register.



**THE HENRY FURNACE COMPANY  
MEDINA, OHIO**

Please have your nearest Moncrief dealer arrange to provide me with:

(     ) additional information.

(     ) a quotation on a Moncrief installation in my home.

Name .....

Address .....

City ..... State .....



Exterior View of "All Fuels"  
Air Conditioning Unit.  
equipped with grates for coal  
burning.

## **MONCRIEF "All Fuels" Steel Air Conditioning Unit**

Here is just that furnace that will meet any fuel problem—you can safely install it to burn any fuel—coal or gas or oil.

The design and construction that provides long fire travel and large heating surfaces so necessary and essential for an "All Fuels" Unit are all built into this advanced design.

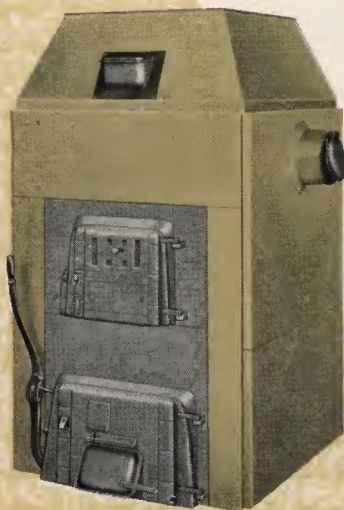
Heating element is heavy steel, automatically welded gas tight. Automatic humidifier adds the moisture necessary for health. Air filters remove dust, dirt and pollen. Blower fan delivers warm air under positive pressure; will provide constant air circulation in hot weather.

## **MONCRIEF Coal Fired Gravity Furnace — Cast Iron Heating Element**

When a dependable, highly efficient heating plant is desired, this furnace has been the "people's choice" for over fifty years.

Heavy cast iron construction with a minimum of joints—heavy duplex grates or triangular bar grates make this furnace an outstanding value for the low priced home.

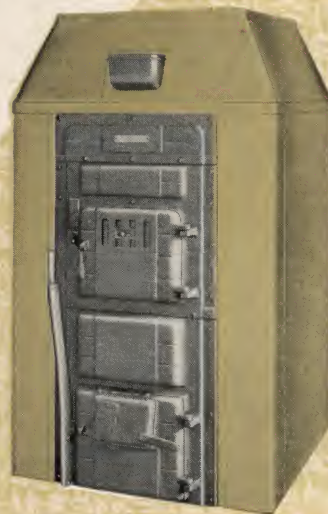
You can get this furnace either with a square, baked enamel casing illustrated at left, or the conventional round type casing.



### **Gravity Steel Furnace**

In this heavy duty, steel furnace you get the same rugged construction as in the "All Fuels" air conditioning unit—and at a surprisingly low cost.

The heating element and radiator have automatically welded, non-porous, leak-proof seams. Fire chamber is lined with fire brick. Made in two styles, square enameled casing, shown at right, or the conventional round type casing. You'll get long years of trouble-free heating comfort with this coal-fired furnace.



PRINTED IN U.S.A.

**THE HENRY FURNACE COMPANY**

Medina, Ohio

**MONCRIEF**

SINCE 1895

HEATING AND AIR CONDITIONING UNITS

FURNACE PIPE AND FITTINGS



**PIONEER OF THE**

# *All Electric Kitchen*

**PUSHBUTTON RANGES**

**REFRIGERATORS**

**FREEZERS**

**DISHWASHERS**

**DISPOSALS**

**ELECTRIC SINKS**

**MATCHED CABINETS**

**WATER HEATERS**

**PIONEER OF THE**

# *All Electric Laundry*

**AUTOMATIC WASHERS**

**DRYERS**

**IRONERS**

**MATCHED CABINETS**

# **Hotpoint**

**individually designs your complete**

*Package* **kitchen**

**and laundry**

# *Work Saving Centers*





# modern all-electric kitchens are ...

## DESIGNED AROUND "WORK-SAVING CENTERS"

Kitchen Designing follows today's trends in building compact, budget homes with emphasis on new livability and serviceability. Hotpoint meets this trend with a full line of custom-matched Appliances to fit the requirements of every Kitchen and Home Laundry. When you plan with Hotpoint Appliances, limited space does not mean the sacrifice of utility and efficiency in your Kitchen.

In order to achieve utility and efficiency in your Kitchen, Hotpoint plans a coordinated unit tailored to fit your kitchen activities. To make your "Dream Kitchen" possible, to achieve the maximum in beauty, Hotpoint offers custom-matched Appliances. Hotpoint has also developed "Work-Saving Centers" that streamline your kitchen activities and save you steps, time, and work.

**There are four "Work-Saving Centers"...** Storage and

Food Preparation, Dishwashing and Cleaning, Cooking and Serving. Scientific tests indicate it is best to plan your Kitchen *around* these Centers. Study the suggested arrangements in this catalog and see how easy it is to adapt them to your Kitchen Planning.

**Then visit your Hotpoint Dealer.** He can show you the brilliant new Hotpoint Appliances. You'll see how Hotpoint brings new convenience, new enjoyment, new utility to your Kitchen. Whether you are considering one Appliance or a complete All-Electric Kitchen, be sure to include Hotpoint in your plans for your home!

save steps

save time

save work



# work-saving center no. 1

## FEATURING COLOR PUSHBUTTON

## ELECTRIC RANGE

The Hotpoint outstanding line of Electric Ranges brings new speed, new simplicity . . . you cook with color! Five exact heats are at your complete control. Each exact heat has a different color to remind you of what's cooking! Additional ease and efficiency in cooking can be yours when you plan a Cooking and Serving Center *around* a Hotpoint Electric Range. On all Hotpoint Ranges there is a large, convenient work surface above the oven. For maximum convenience during cooking and serving operations, additional work area may be provided with Hotpoint Cabinets with counter tops. These Cabinets serve a dual purpose, they also provide extra storage space for utensils, condiments, etc. You can have an attractive picture window above your Range, or a roll-type window—for additional light and ventilation in your Kitchen. See the thrilling Hotpoint Pushbutton Electric Ranges today. See the Color Pushbutton Controls—famous Calrod® Heating Units—oversize, automatic oven—Dual Service Thrift Cooker—Hi-Speed Broiler—and many more features that make Hotpoint Ranges first in the hearts of American Homemakers!



### MODEL SHOWN

RD6 . . . Single-Oven Range with Pushbutton Control

### CABINETS SHOWN

KBD15 . . . 15" Base Drawer Cabinet

KBD18 . . . 18" Base Drawer Cabinet

KWL18 . . . 18" Wall Cabinet

KWH39 . . . 39" Wall Cabinet

KWR15 . . . 15" Wall Cabinet

### OTHER MODELS AVAILABLE

RD7 . . . Double-Oven Range with Pushbutton Control

RC14 . . . Unlighted Pushbutton

RB36 . . . Rotary Switch Range

RB38 . . . Medium Priced Range

RB39 . . . Economy Priced Range



Height 84"

Width 72"

Depth 25"



# work-saving center no. 2

## FEATURING HOTPOINT

## DISHWASHER AND DISPOSAL

The Hotpoint Automatic Electric Sink is a complete clean-up Center—with the Hotpoint Automatic Dishwasher and Garbage Disposall and featuring the Wonderflo faucet . . . one control for any temperature or amount of water. It's the wonderful Hotpoint Automatic Electric Sink. Modern, streamlined design adds new glamour, new beauty to your Kitchen. The sink is of standard height and depth to match Cabinets. The Hotpoint Automatic Dishwasher double-washes, double-rinses, and electric-heat dries your dishes, glasses, pots and pans, and silverware. It's quick, easy, clean, safe! It features front opening (free standing model can be installed under most counter tops). There's no more fuss and muss with unsightly, unsanitary garbage—the Hotpoint Disposall® shreds and flushes kitchen refuse down the drain, out of your house. The Disposall can be installed in any sink. It can also be operated with a septic tank. Be sure to include both of these marvelous appliances in your kitchen . . . get the complete Hotpoint Automatic Electric Sink with Dishwasher and Disposall!



### MODEL SHOWN

MC16 . . . Dishwasher-Sink Combination

### CABINETS SHOWN

KBR18 . . . 18" Base Cupboard Cabinet

KBD18 . . . 18" Base Drawer Cabinet

KW21 . . . 21" Wall Cabinet

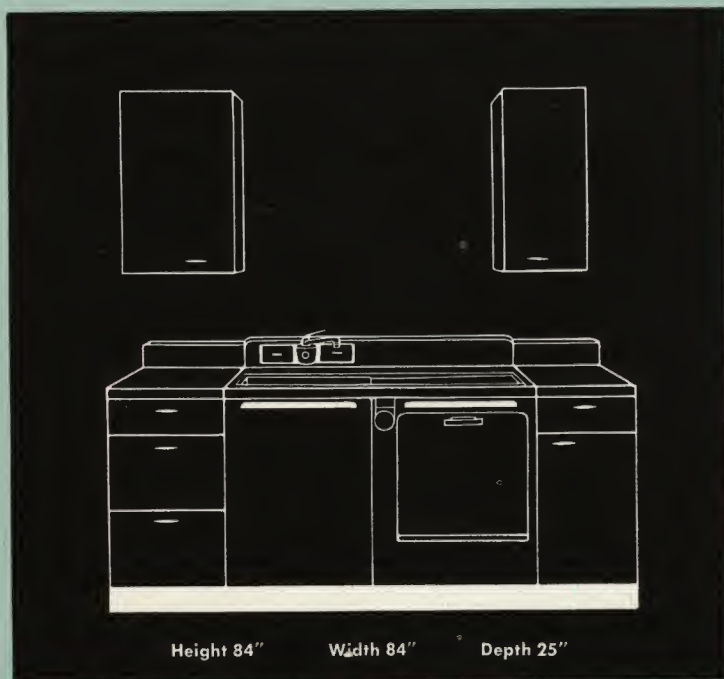
KWL18 . . . 18" Wall Cabinet

### OTHER MODELS AVAILABLE

MD5 . . . Dishwasher-Sink with Disposall

MC15 . . . Free-Standing Dishwasher with Porcelain Top

MC14 . . . Free-Standing Dishwasher Without Top





# work-saving center

no. **3**

## FEATURING HOTPOINT

## SUPER-STOR REFRIGERATOR



with Super-Stor Door and 8 separate food storage zones. When food is brought into your home, it must be stored in or near the Kitchen. Hotpoint Refrigerators offer ample refrigerated food storage space. This center should include sufficient base and wall cabinet storage for staple supplies, utensils, cutlery, etc. needed in food preparation. Having necessary storage space plus a big Hotpoint Refrigerator will necessitate your shopping once-a-week.

Because food is stored in this Center, it's the handy place for food preparation. A counter top or mixing board on the Base Cabinets provides the necessary space for this operation. Your Refrigerator door should open on the side adjacent to the food mixing surface for maximum convenience. (Hotpoint makes both right and left hand doors.)

The Hotpoint "Combination" Refrigerator-Freezer (illustrated here) solves another space problem. It offers a large Fresh Food Compartment plus a separate Frozen Food Compartment. Now even smaller kitchens can enjoy a Refrigerator and a Freezer.

There is a Hotpoint Refrigerator to fit every family's needs, every budget . . . all modern in styling and outstanding in performance.

### MODEL SHOWN

EG87-4 . . . Refrigerator-Freezer  
"Combination" with Super-Stor  
Door

### CABINETS SHOWN

KU24 . . . Utility Wall Cabinet  
KBD18 . . . 18" Base Drawer  
Cabinet  
KWH36 . . . 36" Wall Cabinet  
KWL18 . . . 18" Wall Cabinet

### OTHER MODELS AVAILABLE

EG106-4 . . . Refrigerator-Freezer  
\* "Combination" with Super-Stor  
Door  
EC110 . . . The De Luxe Super-Stor  
EC86-4 . . . The De Luxe Eight,  
Super-Stor  
EF110-4 . . . The Standard Ten  
EF8 . . . The Special Eight



Height 84"

Width 78"

Depth 25"



# work-saving center no. 4

## FEATURING AUTOMATIC WASHER, DRYER, IRONER, WATER HEATER

The Laundry is no longer an eye-sore to be hidden away in a dark basement. Hotpoint's modern laundry equipment with the traditional Hotpoint beauty makes your laundry eye-pleasing.

Thoughtful planning in designing your home Laundry will save you steps and time—minimize your work. Include the Hotpoint Automatic Dryer in your plans. Be sure to have adequate storage space—install Hotpoint Cabinets—for laundry equipment, starches, etc.

Smart home owners include a Hotpoint Rotary Ironer in their laundry plans. Hotpoint offers two fine Ironers . . . cabinet and portable types.

Be sure to see the Hotpoint Clothes Washer with Wond-R-Dial control. This one control lets you wash your way automatically! With this one control, you select the amount of water—the temperature of water—the washing time to do the very best washing at the least cost. The Hotpoint Automatic Washer really washes and rinses clothes clean!



### MODEL SHOWN

LD2 . . . Automatic Dryer

### CABINETS SHOWN

KBD15 . . . 15" Base Drawer Cabinet

KW24 . . . 24" Wall Cabinet

KWR18 . . . 18" Wall Cabinet

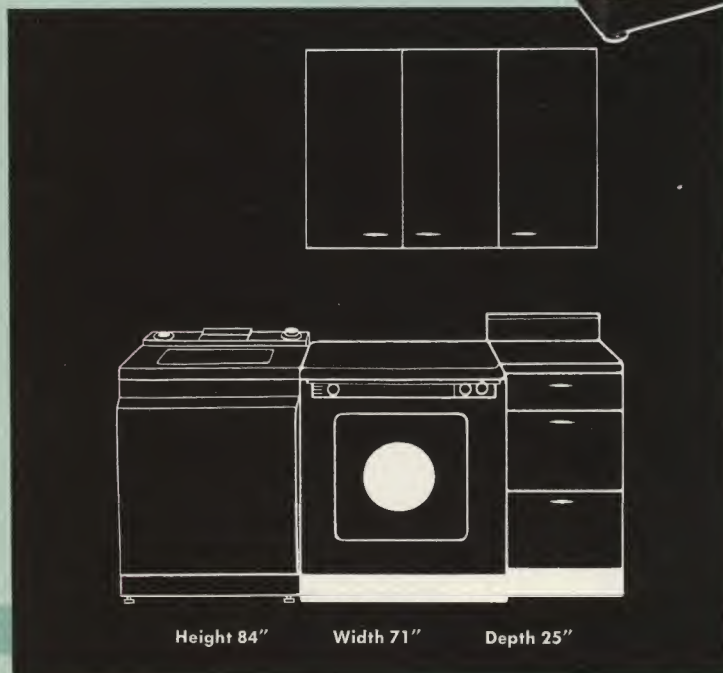
### HOTPOINT WASHER

LC3 . . . De Luxe Automatic Washer

### HOTPOINT IRONERS

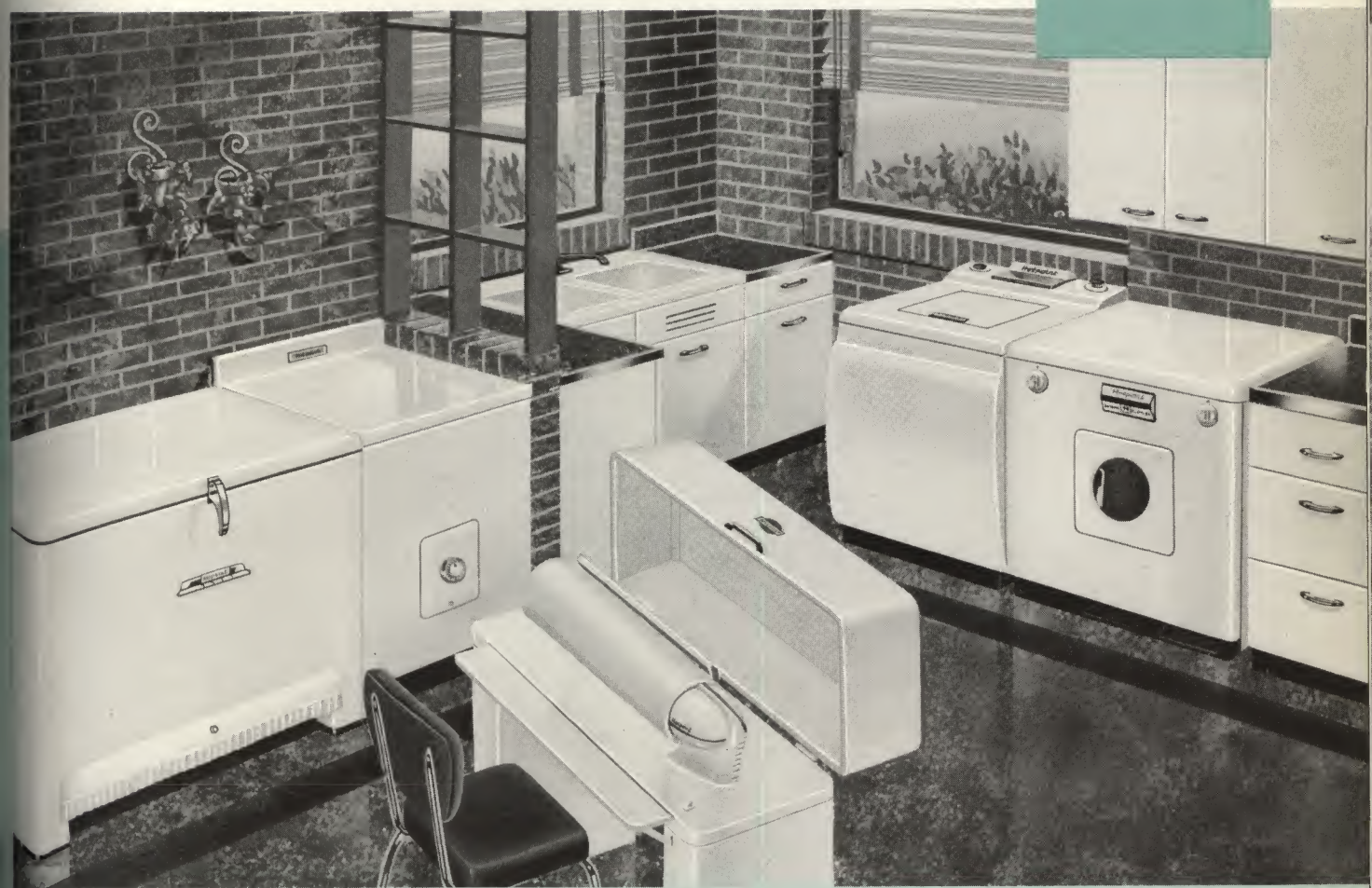
LR1 . . . Standard Portable Ironer

LR4 . . . De Luxe Cabinet Rotary Ironer





# the utility room



Today's high costs combined with the scarcity of many materials have created new trends in design. When cost is

such an important factor, you are constantly concerned with budgeting. Never before has compactness and utility been so important. Budgeting may mean the elimination of a basement, but it does not have to mean the elimination of livability and serviceability in your home. You can plan a utility room that is eye-pleasing, work-saving, and it will save valuable space. If correctly designed and planned around Hotpoint Electric Appliances, your utility room will be a budget-saving, work-saving addition to your home.

**In the suggested utility room** (illustrated here) you will note the compactness and over-all smoothness of design. This room is designed to serve a number of pur-

poses without sacrifice of valuable space. It serves as a laundry room with a Hotpoint Washer, Automatic Dryer, and Ironer. You can achieve maximum storage and work area with Hotpoint Cabinets. The Hotpoint Table Top Water Heater provides additional counter-top work surface where you need it. There's no need to worry about children playing in the utility room when it's equipped with a Hotpoint Water Heater.

**The Hotpoint Food Freezer** is handily located in the utility room. If your kitchen is small, you will find this arrangement a perfect solution to the problem.

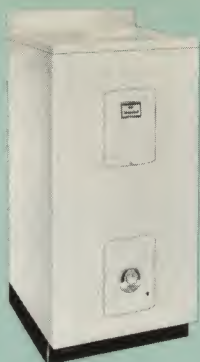
**There's room for plenty of Wall Cabinets**—they provide excellent storage space for canned goods, etc.

**See your Hotpoint Dealer**—let him show you how Hotpoint custom-matched Electric Appliances will answer your needs and bring new beauty, new efficiency, new enjoyment to your home.





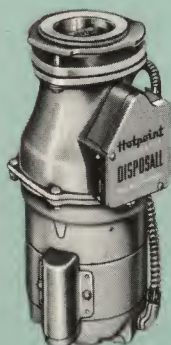
RC14 . . . Pushbutton Range



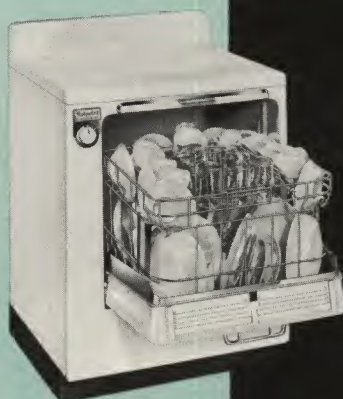
WB52-4 . . . Water Heater



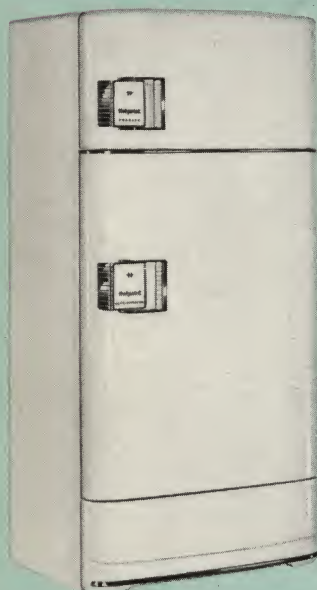
EK11 . . . 11 cu. ft. Food Freezer



Disposall® —  
Automatic  
Food Waste  
Disposer.



MC15 . . . Dishwasher



EG106-4 . . . Refrigerator-Freezer  
"Combination"



LD2 . . . Automatic Clothes Dryer



LC8 . . . Automatic Washer



LR4 . . . Cabinet and Ironer

There is a model to fit every family's need, every budget, in Hotpoint's complete line of custom-matched Electric Appliances. Forty-five years experience of exclusive Electric Appliance manufacturing experience plus thorough engineering and skilled workmanship assure you of superior quality. You can be sure of outstanding performance and complete satisfaction when you select Hotpoint for your home.

Whether you are considering one Appliance or an All-Electric Kitchen or Home Laundry—see your Hotpoint Dealer, he can help you.

# Hotpoint

A GENERAL ELECTRIC AFFILIATE

5600 West Taylor Street  
Chicago 44, Illinois

*LOOK TO HOTPOINT FOR THE FINEST... FIRST*



# IRON FIREMAN

# Heating

## WITH GAS, OIL OR COAL



### True Heating Comfort

Iron Fireman automatic heating produces a houseful of contentment with such quiet efficiency that you almost forget you have a heating system. No matter whether you prefer oil, coal or gas for fuel; whether you

like steam, hot water, or warm air heating; whether you want to install a new heating plant or modernize your present one, Iron Fireman heating will provide an abundance of carefree, dependable warmth.





# IRON FIREMAN

## Heating

... for any size

**A heating unit  
for any kind of firing job—  
with genuine **IRON FIREMAN**  
dependability and economy**

Whichever fuel you prefer, you can find just the right Iron Fireman conversion oil burner, gas burner or stoker to turn your present boiler or furnace into a modern automatic heating plant. Or, if you plan to replace your old heating plant or equip a new home, Iron Fireman offers you a choice of automatic furnaces or boilers for gas or oil or coal.

**A quarter-century of  
heating engineering!**

Iron Fireman's quarter-century of manufacturing and engineering experience in automatic heating assures owners extra value in the fuel economy and thorough dependability of their equipment.



### IRON FIREMAN *Radiant* GAS BURNER

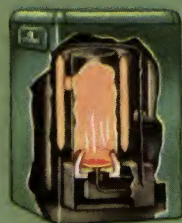
Radiant heat is the type of heat most readily absorbed by the primary furnace heating surfaces and most economically transferred through the system into a circulation system.

However, a gas flame is in itself non-radiant. Iron Fireman combustion engineers have perfected a method of transforming the non-radiant flame into rich, efficient radiant heat. That's headline heating now.

Here, in brief, is the story: the gas flame is released through horizontal ports into a special refractory combustion chamber, where it is thoroughly mixed with preheated air. The complete combustion obtained instantly heats the refractory elements almost to incandescence. From their glowing surface, waves of rich radiating heat shoot out in all directions, blanket every square inch of furnace crown sheet and sidewalls.

### FOR GAS

#### IRON FIREMAN GAS-FIRED FURNACE



Forced and gravity models. Built-in Iron Fireman radiant gas burner provides highly radiant heat for exceptional furnace efficiency. For manufactured, natural, mixed or "bottled" gases.

#### IRON FIREMAN GAS-FIRED BOILER



Extremely compact, quick acting boiler for hot water or radiant panel heating. 72,000 to 500,000 Btu. input. Models range from 26 inches to 36 inches in height. Year 'round domestic hot water.

### FOR OIL

#### IRON FIREMAN OIL-FIRED FURNACE



Winter air conditioner for small homes. Vortex-type oil burner of special design. Furnace body of heavy gauge steel, electrically welded. Floor area 26" x 34" 85,000 Btu. per hour at bonnet.

#### IRON FIREMAN OIL-FIRED BOILER



Medium sized boiler for steam, hot water or radiant panel heating. Vortex oil burner. (Also available with Radiant burner.) Boiler body and flues of heavy gauge steel, electrically welded. 100,000 Btu. per hour at nozzle.

**A fresh start for your present heating plant  
with an **IRON FIREMAN** conversion burner**

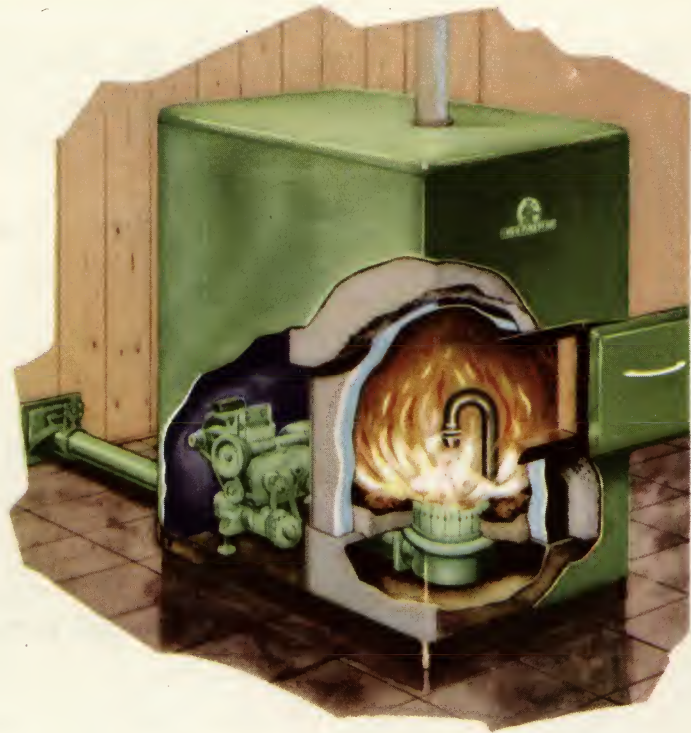


# ome, any type of heating...with any fuel!



**IRON FIREMAN *Vortex* OIL BURNER**

...standing development in oil burner engineering. Its whirling of oil vapor and air creates a highly efficient, bowl-shaped flame blankets the hearth and combustion chamber walls. Maximum highly radiant flame, throws intense radiant heat against the most heating surfaces—the crown sheet and side walls of the furnace. Horizontal hearth is a heat reflecting surface which adds to the efficiency radiant flame. There are no moving parts in the burner head or under combustion chamber, therefore no moving mechanism subject to wear. Upkeep and fuel costs are exceptionally low. Easily installed in standard types of furnaces or boilers.



**IRON FIREMAN *Coal-Flow* STOKER**

Coal is fed from below, and is supplied with air under forced draft. As the coal rises it releases the volatile gases which pass through the fuel bed, where they are entirely consumed. In hand-firing, where coal is thrown on top of the fire, a large share of these gases go up the stack unburned.

The new Coal-Flow stoker has many new features which make it easier to install, more efficient in operation, and permit much more convenient basement layouts.

Down-Draft jet brings air to the center of the fire. Increased combustion efficiency cuts fuel costs as much as 25%. Stainless steel tuyeres (supporting the fuel bed) are guaranteed for 5 years. These two outstanding features are obtainable *only* with Iron Fireman.

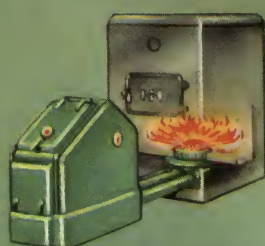
## FOR COAL

**IRON FIREMAN  
COAL-FLOW STOKER**



...a from bin—no coal handling. Installed in your present heating plant it gives you the convenience and luxury of automatic controlled automatic heat, day or night.

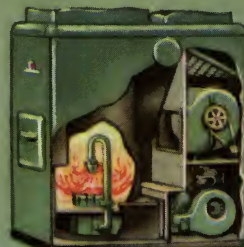
**IRON FIREMAN  
HOPPER MODEL STOKER**



Known from coast to coast for dependability, reliability and fuel economy. Available with exclusive Iron Fireman Syncrostat automatic day and night temperature controls.

## FOR GAS, OIL OR COAL

**IRON FIREMAN  
SELF-FIRING FURNACE**



Self-contained automatic warm air heating unit. Heats, cleans, humidifies, circulates the air. Oil model has Vortex oil burner, gas model has Radiant gas burner. Coal model feeds direct from bin.

**IRON FIREMAN  
SELF-FIRING BOILER**



Self-contained, automatically fired boiler unit for steam, hot water or vapor heating. Equipped with Vortex oil burner, Radiant gas burner or Coal-Flow stoker, which feeds direct from bin; no coal handling.

# The right start for your new home with an **IRON FIREMAN** self-firing furnace or boiler



# There's an Iron Fireman *Syncrostat* precision control system for every size and type of heating plant

## OIL or GAS . . . Automatic day-night Temperature and Time control

The Iron Fireman Syncrostat Control System is the highest development of automatic controls for heating plants. It is designed and made to serve you dependably for many years.

The Day-Night Thermostat has dials for setting the day and night temperatures you desire. Most homes prefer 72° during the day and 62° at night. Reducing the temperatures

10° at night saves approximately 10% of your fuel. Easy-to-set dials on the Telechron clock (time switch) control the times at which the temperature automatically changes. These two instruments can be mounted on the same base, as shown, or can be placed in separate locations, thus providing a handsome and accurate timepiece in any room desired.



## COAL . . . Automatic day-night Temperature, Time and Refueling control



Clock  
Thermostat



C-200 Controller

### COAL SYNCROSTAT SYSTEM NO. 1

This control system includes day-night thermostat and Telechron clock (time switch) described above, and the C-200 stoker controller, which combines several stoker instruments in one unit—transformer, automatic refueling timer (which keeps fuel bed alive during "off" periods), clean-fire switch (self-resetting), and master stoker controller.



Day-Night  
Thermostat



C-120 Controller

### COAL SYNCROSTAT SYSTEM NO. 2

Day-night thermostat and C-120 stoker controller. In this group the Telechron time switch is built into the stoker controller unit, which also includes all other instruments listed above for the C-200 controller. Provides full day-night automatic control, but time switch is a control switch only, not a clock.



Day-Night  
Thermostat



C-110 Controller

### COAL SYNCROSTAT SYSTEM NO. 3

Day-night thermostat, C-110 stoker controller, and Pyrometric fire control. This control group is basically the same as system No. 2, with the addition of the "fire-out" feature, which prevents stoker operation in case of fire failure and operates "fire-out" alarm. This exclusive Iron Fireman system is by far the most advanced automatic coal stoker control available.



### Iron Fireman Stoker Controller

The C-110 Stoker Controller pictured here is the most complete instrument available for controlling an automatic coal stoker. In one compact unit it combines: master stoker control; transformer; day-night time switch; refueling timer; "fire-out" shutdown timer and alarm switch; self-resetting clean-fire switch; and fused hand switch.



### Iron Fireman Pyrometer

Performs two important functions: (1) prevents operation of stoker if fire goes out; (2) helps refueling timer maintain a tiny fire during "off" periods.

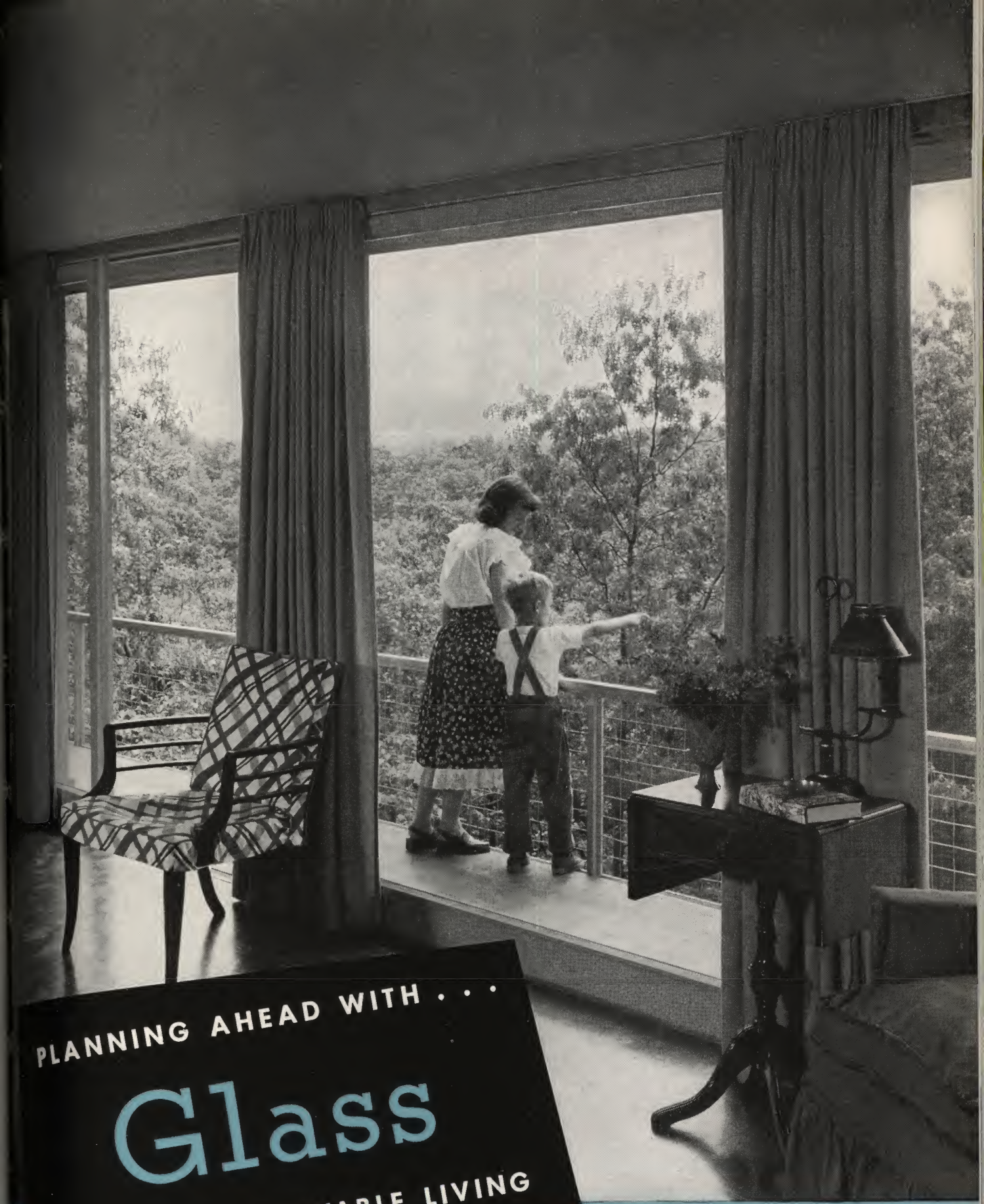


## IRON FIREMAN MANUFACTURING COMPANY

3161 W. 106<sup>TH</sup> ST., CLEVELAND 11, OHIO

Other Plants: PORTLAND, OREGON; TORONTO, CANADA





PLANNING AHEAD WITH . . .

# Glass

FOR MORE ENJOYABLE LIVING

LIBBEY • OWENS • FORD GLASS COMPANY





**MANY NEW IDEAS** have been developed in home construction and decoration in recent years. Most prominent among them has been the greater use of glass. The purpose of this book is to help you see what glass can do for your home . . . to show you how you can use it to add charm and beauty to every room . . . how it can give interiors a more spacious, more cheerful feeling . . . how modern glass can make your home more comfortable, and easier to clean.

**GLASS IS A VERSATILE MATERIAL.** It can be used in many more ways than we can show here. But these ideas can be adapted, if necessary, by you and your architect to fit your individual needs and desires . . . to provide more livability, more enjoyment.

**AND REMEMBER THIS** . . . glass can do as much for the small house as the large, perhaps more. It adds smart, individual touches that mark your home as up to date . . . makes it the kind of place that will be a constant source of pride and satisfaction to all your family . . . a home that will win the admiration of all who see it.

The following trade marks mentioned in this booklet are the property of the Libbey-Owens-Ford Glass Company, and all have been registered in the United States Patent Office:

VITROLITE • THERMOPANE • TUF-FLEX • BONDERMETIC SEAL

Copyright 1950, Libbey-Owens-Ford Glass Co.





# FOR MORE CHEERFUL, MORE INTERESTING ROOMS

# "Open" THE WALLS WITH Glass



● Cheerfulness goes hand in hand with daylight and outdoor beauty.

And so, why not plan to bring in more daylight and make the most of outdoor views? Open your rooms to both—with glass.

Perhaps you've noticed the trend to larger windows in recent years. Why? Not just to be different—but because architects and owners have found through experience that homes with greater window areas are more cheerful, more pleasant places in which to live. They have a more spacious feel . . . they permit enjoyment of the beauties of the ever-changing landscape. Such homes capitalize on the often taken-for-granted ability of glass to let your eyes roam to the outdoors while you sit cozily inside.

You might wonder about privacy. Your architect can take care of that by careful landscaping . . . by facing larger windows away from passing traffic . . . or by using beautiful translucent architectural glass that brings in the light but guards your privacy.

No longer need you worry about excessive heat losses where large windows are used . . . even in cold climates. That problem has been answered with Thermopane—the Libbey-Owens-Ford windowpane that insulates. Thermopane allows you



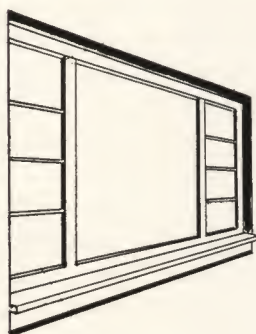


to enjoy the charm of bigger windows with comfort and heat savings you'd never imagine possible in cold weather. Thermopane consists of two or more panes of glass, with a hermetically-sealed dead air space between. You'll find a description of Thermopane on pages 22 and 23. It's one of the important "better things" that technical research and industrial progress have made available for your new home.

Your architect is familiar with the many ways glass can give your home greater beauty, charm, comfort and a feeling of greater spaciousness. These and other benefits are summed up in the term "DAYLIGHT ENGINEERING" . . . the intelligent use of glass to achieve predetermined, desired results. Ask your architect to include the many advantages of Daylight Engineering in the design of every room of your home.

## CHOOSE THE TYPE OF WINDOW THAT BEST FITS YOUR NEEDS

● Libbey-Owens-Ford does not make windows . . . only the glass with which they are glazed. But we wish to call to your attention several types of windows commonly used in modern home construction.



### PICTURE WINDOWS

You will want a large window in many rooms of your home. The big area of clear glass presents an unobstructed view of the outdoors. It brings in beauty—brightens and livens the whole room. You can provide ventilation with windows which open on either side, or a louvered opening above or below the main window.

### BAY

You may want your Picture Window projected into a bay. It provides an area for a window seat, or an indoor flower garden. And it tends to give the room a more spacious feeling.



### A WORD ON WINDOW DESIGN . . .

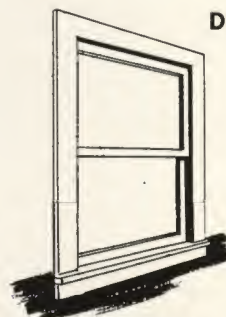
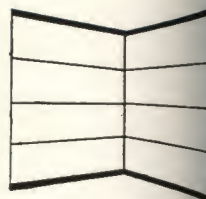
This is a familiar type of window, with the glass divided into small panes. Note how it cuts up the view, prevents full enjoyment of the scene.

A step to better visibility. This window is in keeping with modern trends. Such a window offers benefits in easier cleaning and repainting.

This window provides an unobstructed view. In effect, it's a beautiful mural you can enjoy the year 'round. Easier to clean and repaint, too.

### CORNER WINDOWS

Provide a broader view and bring daylight in from two directions. Widely used in recent years, they are very popular with homeowners who have them.



### DOUBLE-HUNG WINDOWS

In wood or metal. This is the familiar type that slides up and down. Such windows are available in a wide range of types and sizes to meet almost any requirement for daylighting and ventilation.

### CASEMENTS

In metal or wood. Casement windows swing in or out—some of them are operated by a mechanical device on the inside window sill. They are available in a wide range of types and sizes.

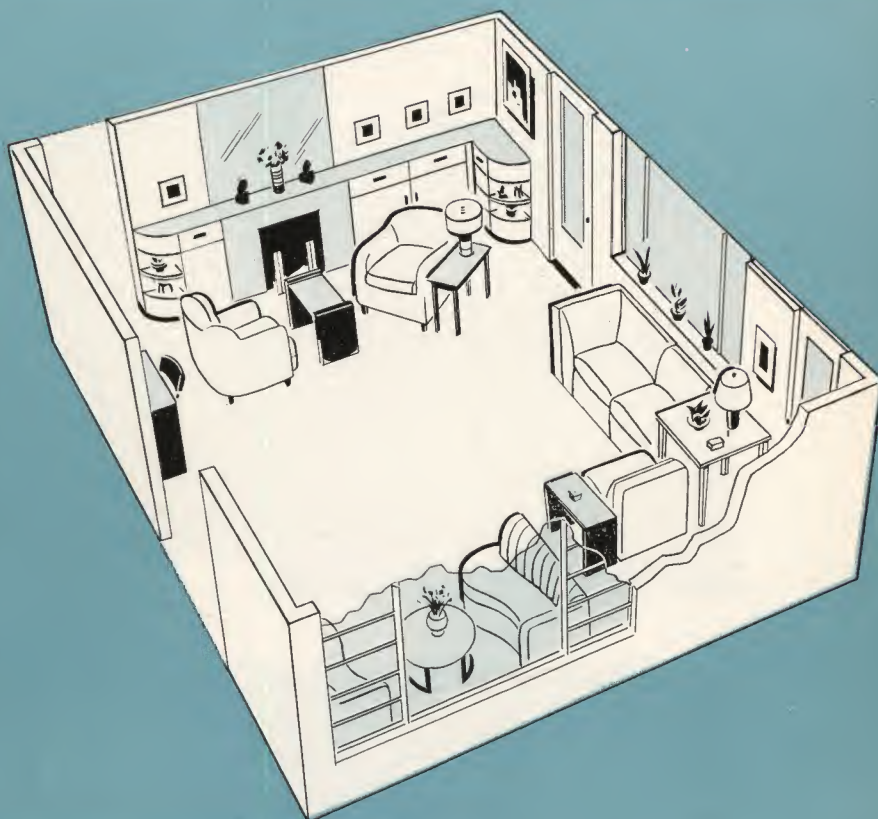




# GLASS PUTS LIFE IN THE Living room

● Glass has glamor. It offers boundless opportunities to give your living room a brighter, cheerier atmosphere—and a feeling of pleasant spaciousness. Glass is a practical material, too. It's easy to clean. Its finish is unharmed by spilled liquids. And it never needs refinishing.

● Glass can put zest into every part of your living room. You'll want to make the most of the outdoor view with a huge Picture Window glazed with L·O·F Thermopane. Behind the sofa you can project a dynamic extension of the entire room with a tall, broad mirror. And a mirror will dress up the mantel, too. Glass is not relegated to the walls alone. Oh, no! For an unusual flavor, make one of your tables all glass . . . use glass shelves for knickknacks, and a graceful sweep of glass along your stairway. There's no end to the things you can do with glass to liven up your living room. Try it and see.



**COLORFUL MURALS** the year-round—when you have big Picture Windows like these. They lift the room out of the ordinary, flood it with cheerful sunshine. And, because they're glazed with Thermopane, comfort is not jeopardized in winter.





A WALL SPRINGS TO LIFE under the clear magic of a mirror, placed behind the sofa, where it can "double" the coloring of the room. Crowded rooms take on new spaciousness when the wall is "moved back" with a mirror.

ATTRACTIVE "INSIDE" WINDOW of decorative glass brightens and enlivens what might otherwise be a drab and uninteresting wall. Use this lovely glass in windows when you want to cut off an undesirable view.



PRACTICAL AND CLEVER . . . this table with a top of clear glass. It comes sparkling clean, like new, no matter what you spill on it.



CHARMING BACKGROUND for your favorite table or chest. Use an occasional mirror of a style that harmonizes with your furnishings.



COMPLEMENT TO A FIREPLACE . . . a crisp, unframed mirror. It brightens the whole room by reflecting daylight from a window.







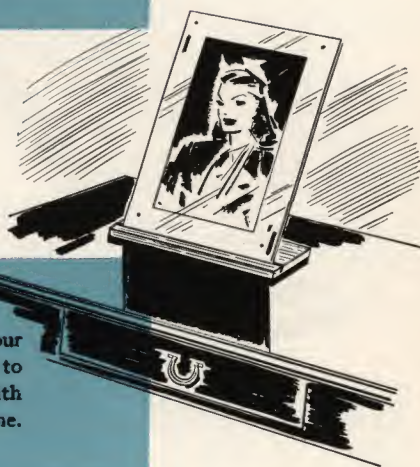
NO HARM CAN COME from spilled ink or frequent washing when your desk is topped with clear glass.

BEAUTY AND CONVENIENCE are combined in this unusually attractive fireplace faced with colorful Vitrolite. It comes sparkling clean with a damp cloth. Note the glass shelves backed with mirrors.



GUESTS WILL APPRECIATE this handy, full-length mirror. Fine for you, too, for a last look before departure.

CURE DARK WALL AREAS with an attractive partition of fluted glass between the living and dining rooms.



DO JUSTICE to your favorite photo, and to the room as well, with a lustrous mirror frame.

LOVELY TO LOOK AT—and sensible. This charming table has stain-proof glass for its surface, and you can see your favorite magazine underneath.



DRAMATIZE YOUR STAIRWAY with a two-story bay window, glazed with Thermopane for insulation.

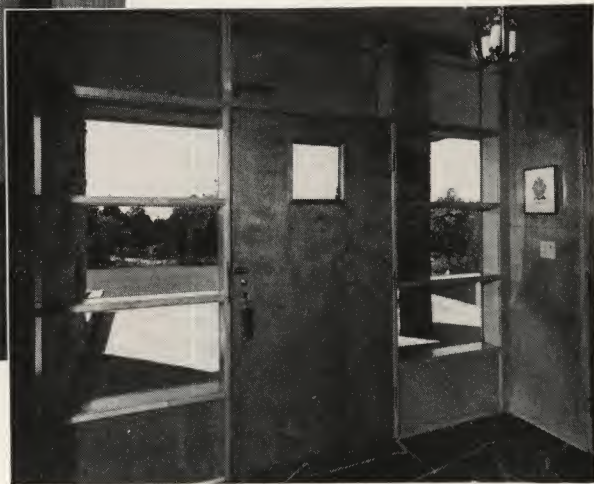




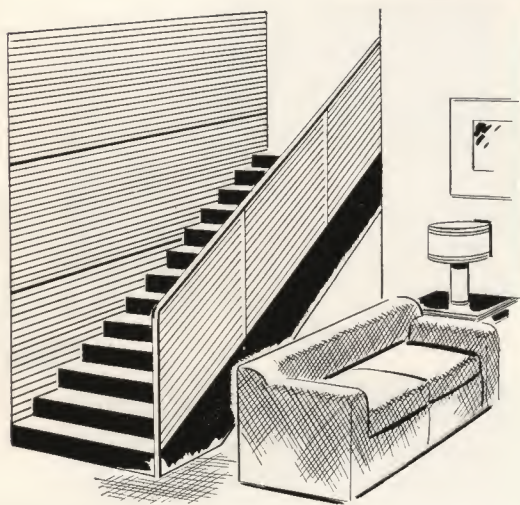


**BRIGHTEN THE HALLWAY**  
 Photograph at left shows how a light-transmitting panel of Louvrex glass can double as a what-not shelf.

Below—If you want to see who's at the door, use clear panes at one or both sides.



A LIGHT TROUGH fitted with translucent glass is ideal, diffuses light softly, evenly throughout the room.

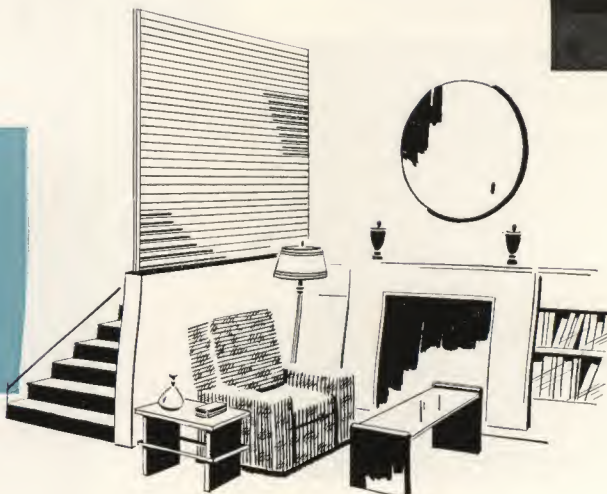


NO DARK STAIRWAYS when a translucent glass partition shuts off the steps without shutting out light.



THIS STUNNING TABLE can be made of Tuf-flex, the Libbey · Owens · Ford glass that is tempered for extra strength. What a welcome addition to a living room!

VERY ATTRACTIVE . . . a stair panel of sparkling fluted glass. It transmits light from the room onto the steps. And it's so easy to clean.







**FAVORITE LOUNGING SPOT . . .** a porch enclosed with L-O-F Thermopane for year 'round insulation is a cheerful, healthful place for leisure hours.



**BRING LIGHT THROUGH** panels of decorative glass to highlight favorite bric-a-brac.



**TWO ROOMS FROM ONE** is almost as easily done as said, when the partition is of patterned glass panels between the living and dining areas.

**CAPITALIZE ON THE COLOR** of your book bindings . . . and preserve that color by putting clear glass doors on your book cases.



**FEATURE YOUR KNICKKNACKS** on clear, sparkling glass shelves. Sliding glass doors will reduce the number of dustings.



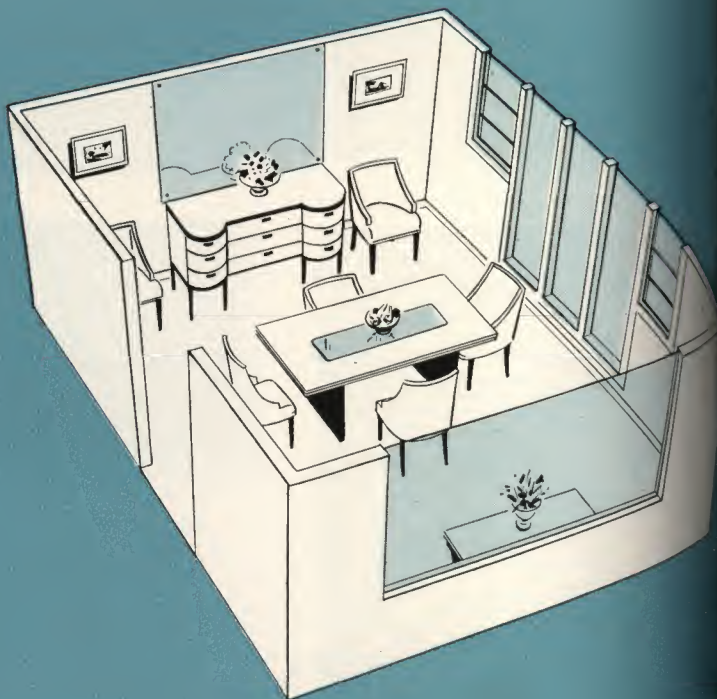


# GLASS DECORATES THE Dining room

● Here's a room that fairly begs for light and cheer . . . and there's no better way to get them than with glass. Light and cheer go hand in hand with relaxation, an important element in any enjoyable meal.

● What can glass do for your dining room? Give it a feeling of extra spaciousness with mirrors. Bring in the beauty of the outdoors, through Picture Windows. Flood the room with a soft, flattering light—from fluorescent lamps concealed behind attractive, patterned translucent glass.

Glass is so decorative! Under candlelight, it sparkles, catches the high lights, casts twinkling reflections. So, as you plan your dining room, remember to take advantage of the brilliance of glass—to eliminate dark corners and enliven every part of the room. There's almost no end to the ways glass can add charm to your dining room. Perhaps the examples shown here will suggest many ideas that fit into your plans.



CHANGES OF SCENE come naturally with changes of weather and season, through a huge Picture Window like this. Glazed with Thermopane, it provides insulation that saves heat and adds comfort. The casements open for ventilation.







EXCITINGLY BEAUTIFUL . . . tall door with figured glass panels.

DOUBLE DUTY . . . a gleaming glass partition gives extra charm and brightness to both the dining room and the living room or kitchen on the other side.



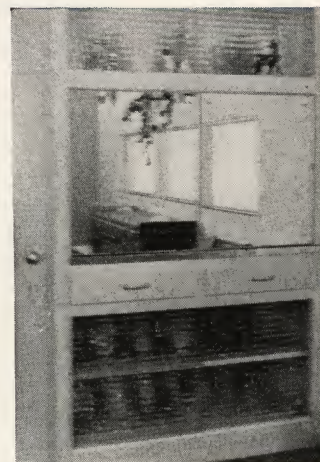
DOUBLE LOVELINESS in this centerpiece . . . a silvery mirror to reflect the beauty of flowers or baubles. Carry through the sparkling theme and spare the laundry bag with mirror plaques for individual settings.



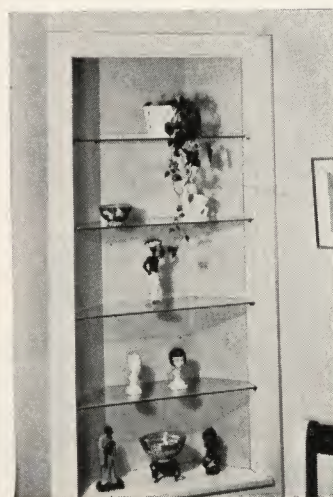
SPARE YOUR ENERGY with a stationary dumb-waiter. Close the mirrored doors, and presto! You'd never suspect there's a kitchen behind. Note the attractive patterned glass windows . . . wonderful light catchers, and ideal where the view's not too good.



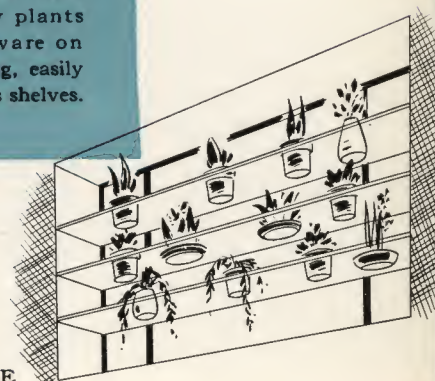
FEWER DUSTINGS are necessary when china cupboards are enclosed with attractive glass doors.



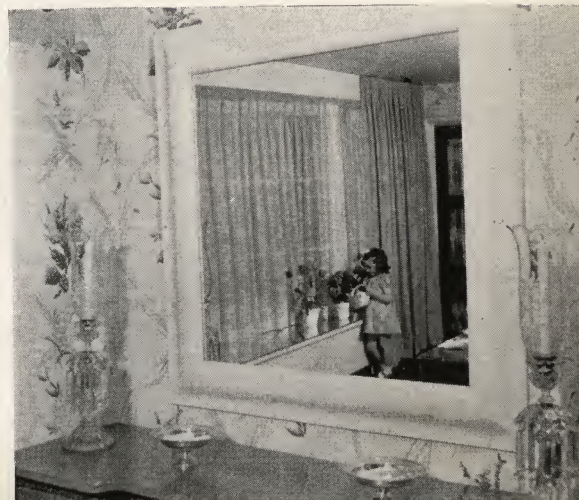
DRESS UP YOUR WINDOWS with gay, pretty plants and glassware on good-looking, easily cleaned glass shelves.



EXTRA SPARKLE for your knickknack display when shelves are clear plate glass.



HINT OF GRACIOUS LIVING . . . in the smooth-swept lines and true reflections of this sparkling buffet mirror, made with L-O-F Plate Glass.





# GLASS BRIGHTENS THE Kitchen.. LIGHTENS THE WORK

● Glass is modern . . . not only in its decorative possibilities, but as a work saver as well. It gives luster and color to your kitchen . . . *permanent* luster and color, for glass won't fade or tarnish. And it comes clean with the whisk of a cloth.

● You'll spend most of your day in the kitchen. Make yours cheerful, light, easy to work in, by opening the walls with glass. Bring in the sunlight and an exciting view of the outdoors. For wainscoting and work surfaces, use Vitrolite, the attractive, colorful structural glass. It gives a sanitary spic-and-span look to your kitchen, and reduces cleaning chores. Glass adds safety in the kitchen because it's noninflammable.



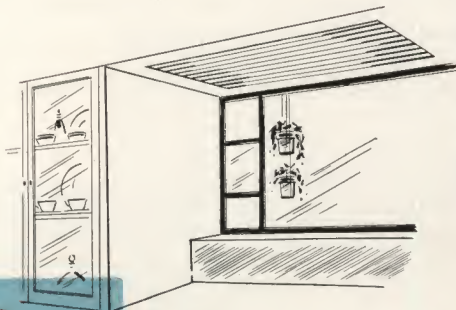
THIS LIGHT, CHEERY KITCHEN uses glass in beautiful and practical ways. The large, clear Picture Window allows enjoyment of the outdoor view. For heat saving and comfort, it's glazed with Thermopane. Work surfaces are flooded with daylight through decorative translucent panels of figured glass. If preferred, these panels could be clear glass, to permit a view of the garden and the flower boxes outside.

The fluted, sliding glass doors eliminate groping for the right jar, and add a decorative note. Shelves, too, are glass—which spares the fuss of endless shelf-paper changing.



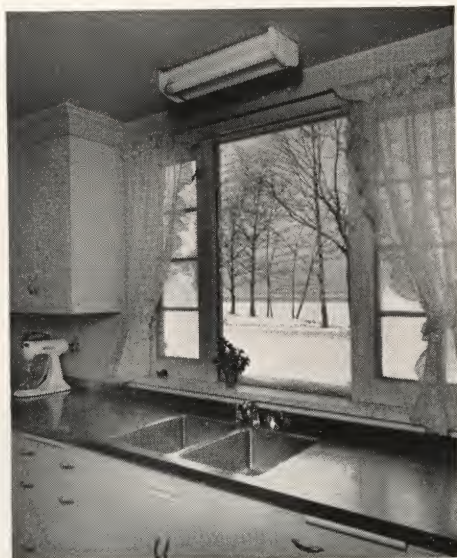


**TRANSFORM** a corner of your kitchen into a dinette with a tall screen of patterned glass. Grease spots from cooking are no problem on glass.

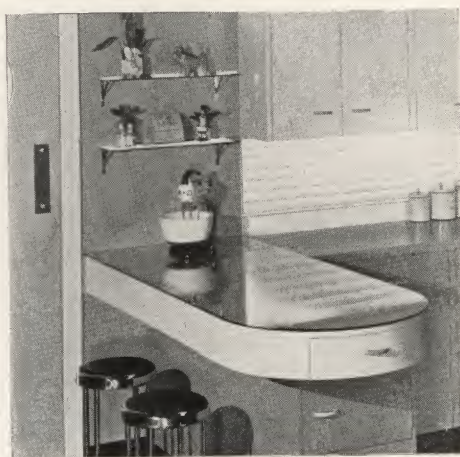


**EASY ON THE EYES . . .** soft, diffused light from a recessed fixture faced with a patterned glass. Over the sink, it eliminates working in your own shadow.

**THERMOPANE** stays clear, while flanking single-glazed windows steam up in cold weather. Architect: Herman O. Langenhan, Cleveland, O.



**EASY-TO-CLEAN SURFACE** for your breakfast bar . . . Vitrolite, in a variety of gay, permanent colors.

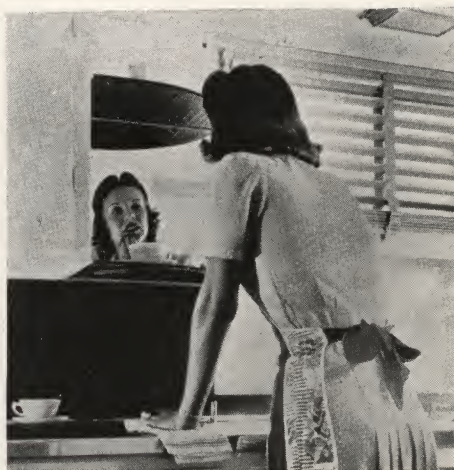


**HERE'S WINDOW MAGIC**—the brightness and attractiveness of the windows in this kitchen are, in effect, "doubled" with this mirror.

**PRETTY AND PRACTICAL . . .** Vitrolite wainscoting. Its glistening, colorful finish will not fade or wear off. A swish of the cloth wipes it spotless.



**A "PRIMPING MIRROR"** for a quick dab of lipstick will pep up your morale.



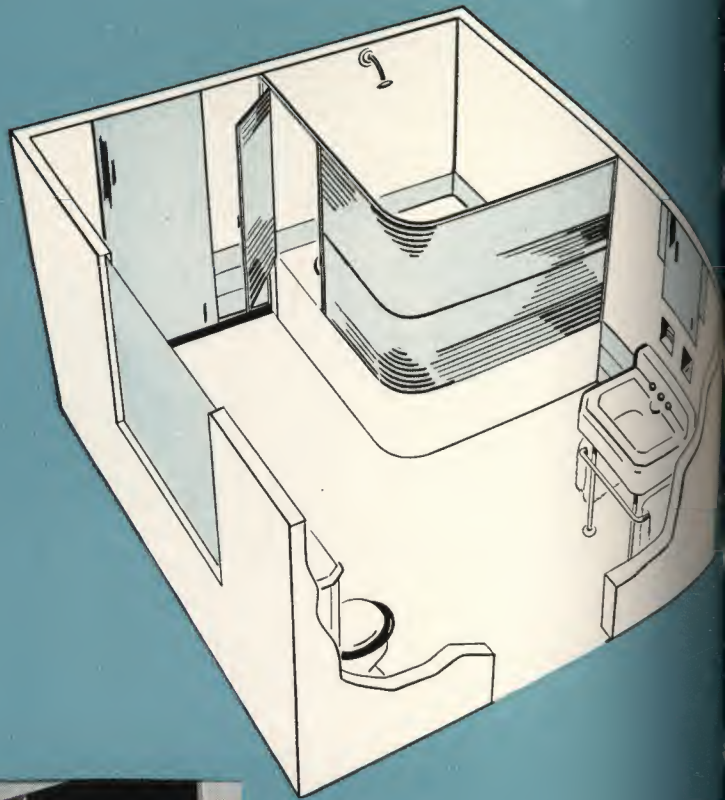


# PUT SPARKLE IN THE Bathroom · · WITH GLASS

● You'll want your bathroom not only easy to clean, but clean-looking as well. You'll want it colorful, with a touch of smartness. These are desires you easily can realize by taking advantage of the versatility of modern glass.

● There's a lot of satisfaction in having a cheerful looking bathroom. It's a room that guests always notice—a room which marks your home as up to date or old-fashioned. So, give it sparkle—give it beauty—with glass.

Glass doesn't mind water, spilled lotions or powder. It's a thoroughly practical material for surfaces in the bathroom—walls, shelves, shower stall. And, of course, you'll want an arrangement of mirrors—not only for convenience, but also to “enlarge” what usually is the smallest room in the house.



A ROOM TO BE PROUD OF . . . this striking bathroom, with walls of blue and white Vitrolite structural glass. Its lustrous finish always wipes clean, always looks new. The decorative figure is sand-blasted on the Vitrolite wall behind the tub.

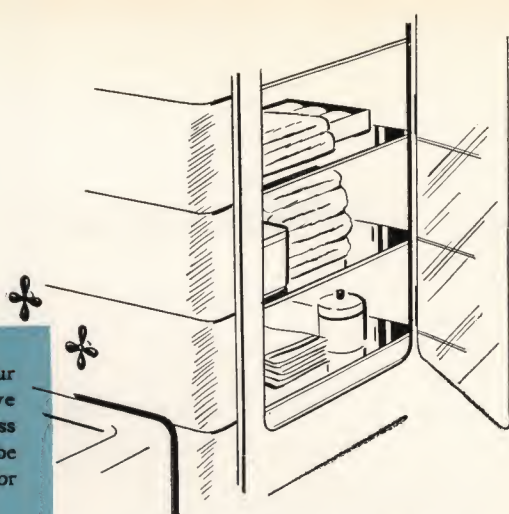
The shower stall door is clear glass. Toiletries are arrayed on plate glass shelves, backed by a lovely panel of patterned glass. The large mirror over the washstand aids dressing and shaving, accentuates the beauty of the entire room.





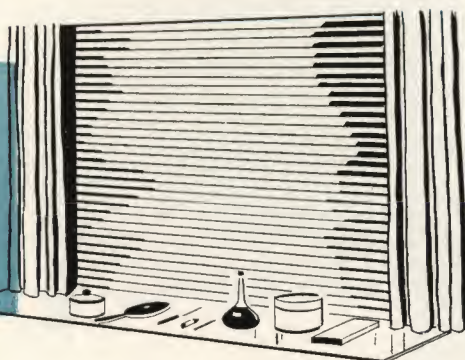
**CHARM AND PRACTICALITY** join hands in this combination tub and shower. The enclosure provides protection from drafts and keeps water from splashing into the room. Note the full-length mirror . . . a convenience in any bathroom.

**ADD THE COLOR** of your towels to your decorative scheme. Behind clear glass doors, they'll always be handy. Use clear glass for shelves, too.

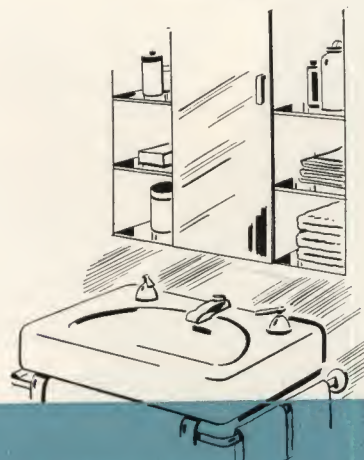


**GLASS BRIGHTENS A ROOM . . .** gives it extra appeal. This delightful bathroom is flooded with light through panels of Doublex patterned glass. (Photo courtesy of Armstrong Cork Co.)

**CONDENSATION IS NO PROBLEM** when your bathroom window is glazed with Thermopane. For privacy use Thermopane made with translucent Blue Ridge Glass, described on page 28.



**PLEASE YOUR GUESTS** with a chic powder room. Provide a plate glass mirror over the washbowl—another over the dressing table.



**A HANDY PLACE** for shaving things, cosmetics and toiletries . . . this glass shelf over the washstand.



**CLEVER THREE-WAY MIRROR . . .** it's a practical help in shaving and make-up.

**VITROLITE** glass walls and counter top in this bathroom come sparkling clean with a whisk of a damp cloth. Large wall mirror doubles the beauty.



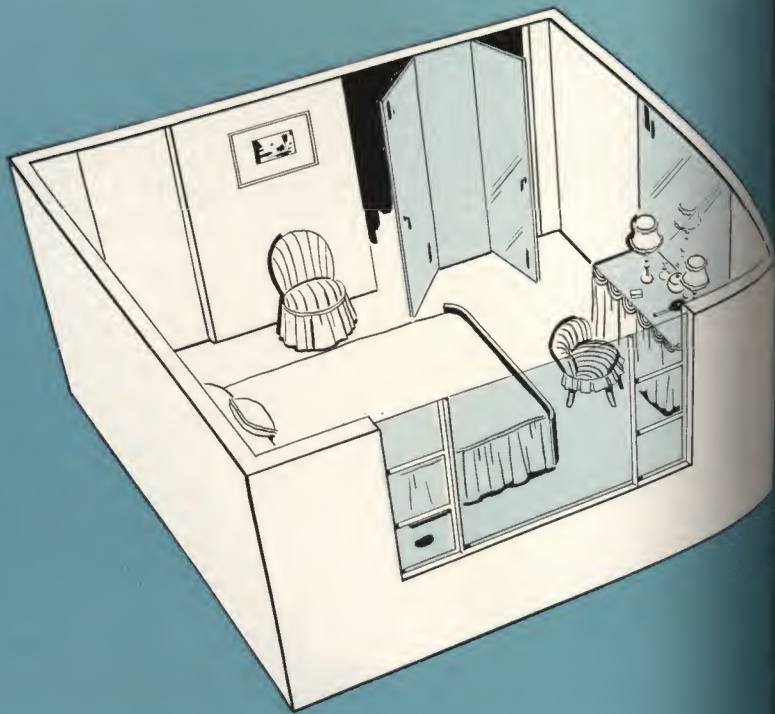


# GLASS DRESSES UP THE Bedroom

● Here's a room that calls for the last word in beauty and loveliness . . . and it's a room in which you can use glass effectively in both practical and striking ways.

● You'll probably have windows on two, maybe three, walls of your bedroom. How to brighten up the other walls? Use mirrors. They'll catch the light and color of the outdoors, reflect them into the room. Partitions of Satinol decorative glass offer another novel means of brightening inside walls.

Glass is a versatile decorative material. It has a lustrous, beautiful finish that never loses its charm, never needs renewing. Among the ideas shown on these pages may be just the suggestions you need to "dress up" the bedroom you are planning.



**PREVENT DULL WALLS** by creating interesting, colorful areas with mirrors. Here a large mirror between the windows reflects the beauty of the entire room. And, in effect, it "doubles" the spaciousness.





A PICTURE WINDOW brings in outdoor beauty. This lovely window is Thermopane, which cuts heat loss, reduces condensation, adds comfort. The casements swing out for ventilation.



A CLOTHES CLOSET WINDOW will shorten your search for the right dress. Remember, moths don't like a lighted closet. Another tip, a clear glass shelf lets you see what's on it from below.



A GLASS WIND DEFLECTOR will prevent direct drafts from an open window. Made of glass, it won't keep out daylight.

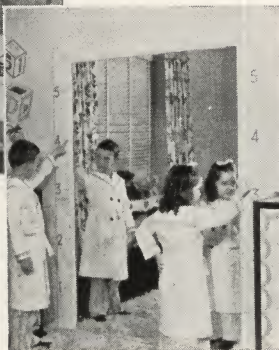


**DOES IT MATCH?** Your daughter will welcome a good mirror, handy for trying on the latest fad.



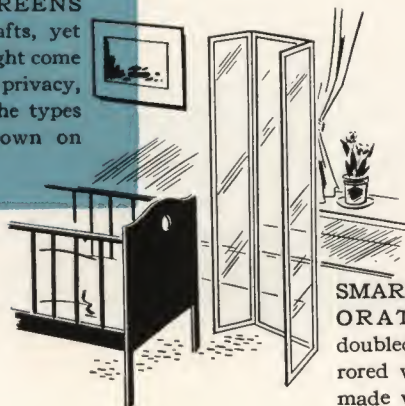
**SMART IDEA**—if shortage of wall space makes a large vanity impractical, attach a shelf and mirror inside the closet door.

**TEACHING PROPER GROOMING** is easier when children have their own mirrors. Make them proud of their appearance—and their rooms—with mirrors.



**HOW DO YOU LOOK** before the guests arrive? Find out—with a three-way full-length mirror that gives you an all-over view.

**GLASS SCREENS** ward off drafts, yet they do let light come through. For privacy, use one of the types of glass shown on page 28.



**SMART DECORATION** is doubled in mirrored wall . . . made with L-O-F Polished Plate Glass for truer reflections. Plate glass vanity top adds sparkle that's practical . . . cosmetics don't harm glass.





# MAKE THE BREAKFAST ROOM A CHEERFUL SPOT WITH **G**lass

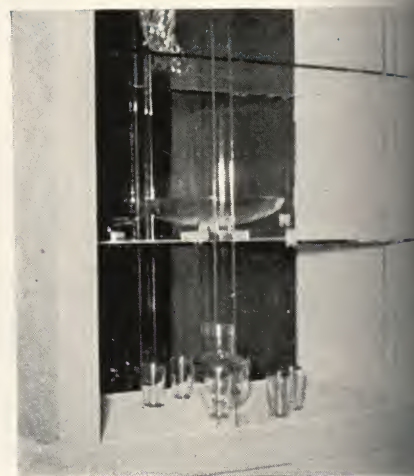
THIS WALL DOES DOUBLE DUTY, as a space for a built-in seat and also a window. Slanting the bay out at the top makes the room larger . . . gives the dinette a "different" look. The folding decorative glass screen, when closed, separates kitchen from dining space.



START YOUR DAYS right . . . enjoy outdoor views with your toast and coffee. When Picture Windows are Thermopane, you'll be sure of extra comfort . . . Thermopane reduces drafts, cuts heat loss.



HOT COFFEE CAN'T HARM the lustrous beauty of a Vitrolite table top. Dirt and finger prints wipe off with a sweep of a damp cloth.



CHARM AND UTILITY are combined in these sparkling glass shelves enclosed by sliding glass doors.

SMART LITTLE SHELVES provide an added touch of color when they hold flowers and favorite knick-knacks.



AN IDEAL SPOT FOR FLOWERS is this window sill of L.O.F. Vitrolite. Water or dirt do not harm this colorful glass.

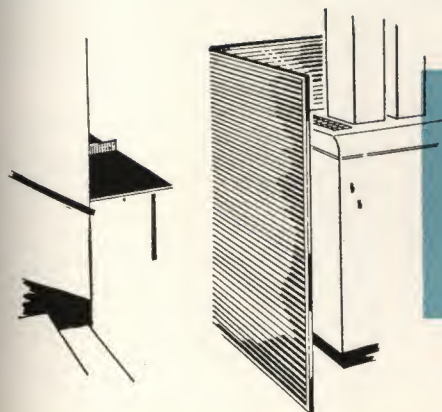


MORE FUN •• IN A ROOM  
THAT'S "PEPPED-UP"

WITH **G**lass



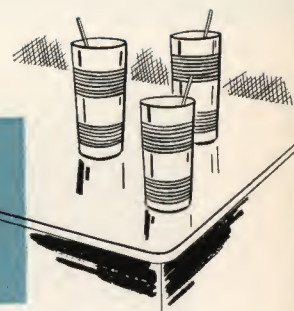
**FUN AND RECREATION** for your guests right next to your living room. This partition of fluted glass adds light and cheerfulness to two rooms, shuts off noise, and is decorative.



**DISGUISE THAT "BASEMENT LOOK"** in your recreation room. Hide the furnace behind a good-looking screen of decorative glass. Noninflammable, of course.



**ADD GAIETY** to parties with a colorful Vitrolite bar. Defies scuff marks, spilled drinks, burning cigarettes... wipes clean.



**TABLE TOPS OF GLASS** can take it. For extra toughness, use Tuf-flex, the tempered glass.



**SHOW OFF** your cocktail glasses and clever knickknacks on clear, handsome glass shelves.



**ENJOY PRIVACY** and still have the cheerfulness of daylight, with windows of patterned glass.

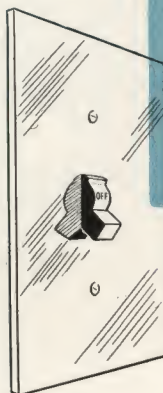


# More Ideas

TO ADD THAT  
"CERTAIN SOMETHING"  
TO YOUR HOME

WITH **G**lass

SMUDGES WIPE OFF with just the flick of a cloth when doors and walls are protected with glass plates . . . excellent for children's rooms.



FOR THE MAN WHO WORKS AT HOME, a room like this, with windows of translucent glass is ideal. Here he can have privacy, plus the cheerfulness of diffused daylight.

## HINTS ON CLEANING GLASS

● The enduring, sparkling surface of glass is one of its most decorative qualities. To keep it clean and bright with the greatest ease, it is recommended that you use a solvent cleaner with a soft, absorbent cloth. Many solvent cleaners for glass are sold at drug, grocery and hardware stores. Use them in preference to any cleaner that contains abrasive material.

To remove hardened paint spots, first wash the glass thoroughly. Then use a new razor blade, cutting under the spot carefully. Do not cut with the corner of the blade.

To remove labels from glass, soak them thoroughly with a wet cloth first. Never use even the finest textured emery or sandpaper for this purpose.

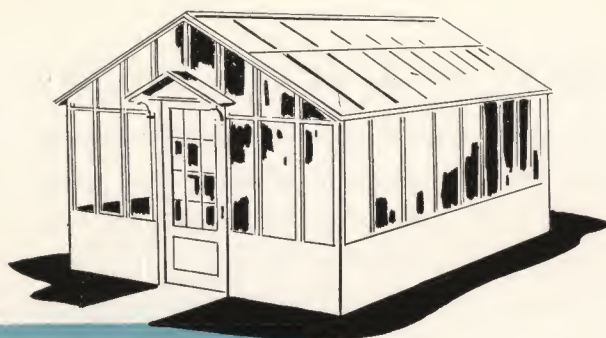


A SPECIAL BEAUTY SPOT for your home . . . a sun porch lined with thriving plants. Glass shelves take much of the muss and fuss out of flower growing. They won't stain, and a damp cloth wipes them clean in a jiffy. For protection from cold, make the windowpanes Thermopane, the L·O·F glass that insulates while letting the sun beam through.

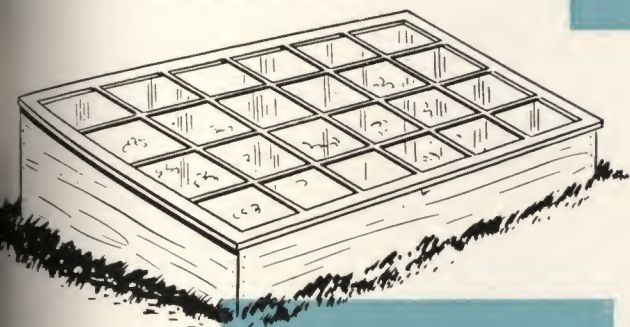




**DISTINCTIVELY MODERN** furniture of glass can enhance the beauty of your home. It's as sturdy as it is lovely.



**ENJOY FRESH VEGETABLES** at the table all year long, from your own miniature greenhouse.



**REAP EARLY DIVIDENDS** from your garden by toughening young flower and vegetable plants in a cold frame.



**A BIT OF GLITTER** for any room . . . a mirrored waste basket adds a decorative note.



**A GLASS COVER** helps keep dirt and leaves out of basement window wells without shutting out light.



**SKYLIGHTED LIBRARY** can be created in an attic . . . with panels of Patterned Glass to provide glareless light. Good idea for a studio or fun room, too.



**OUTDOOR-INDOOR** living room can be created from your porch by enclosing it with Thermopane. This double-glass insulating windowpane lets you enjoy your lawn and garden all year in greater comfort.



## WHAT IS A SOLAR HOUSE?

A Solar House is any dwelling which permits the warming heat rays of the winter sun to penetrate large glass areas and supplement the normal heating system's functions, but, through its design, excludes the sun's rays in hot months. A Solar House can be any one of many types of architecture that give special attention to control and utilization of the sun's heat rays.

Generally speaking, a Solar House faces to the south. Such orientation permits more accurate control of the sun's rays—enables the owner to take full advantage of walls opened up with glass. These glass walls are able to *trap sun heat* once its rays have penetrated the glass, because their wave lengths are altered.

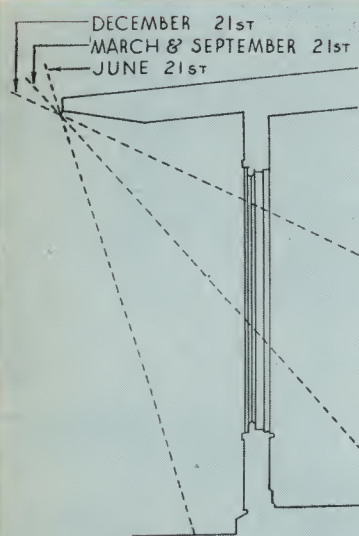
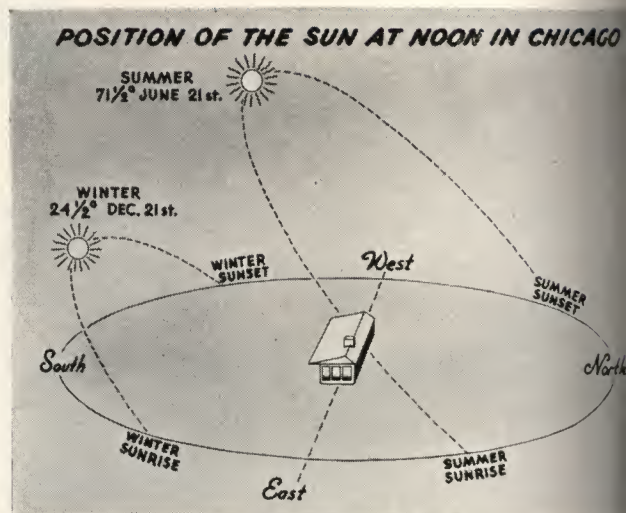


DIAGRAM OF SUN ANGLES FOR CHICAGO LATITUDE

To utilize the sun's rays, some means of keeping out its excessive heat in summer and permitting its entrance in winter months is necessary. This diagram shows how the roof overhang or sun visor excludes direct sun rays from the house interior from June through August.

## NEW TRENDS TOWARD MORE ENJOYABLE LIVING WITH Solar Housing

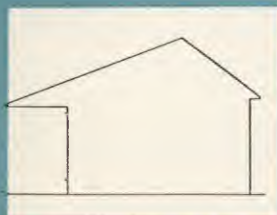


The above diagram explains the fundamental principle of utilizing the sun's heat rays in winter. At the left, the *lowered* path of the winter sun permits the rays to penetrate into the living quarters. Above is shown the sun's path in summer—high overhead—and the roof visor which keeps out the extra sun heat.

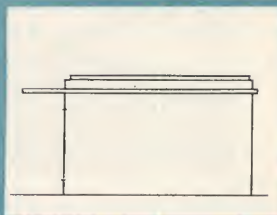
● In Solar Houses control of the sun rays is accomplished by a Sun Visor, roof overhang or some other physical means of shutting out the summer sun.

There are several types of roof extensions as indicated in the panel of sketches below. Their purpose is the same, whether a smartly tilted roof overhang, extended straight roof, or a framework of evenly spaced grilles.

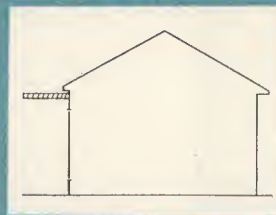
### TYPES OF SUN VISORS



In effect, a conventional porch employs the Solar principle of a visor. The roof line of this house is extended in order to shade the glass area in summer.

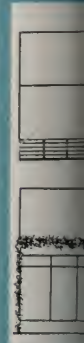


This built-up roof departs slightly from conventional hip-roof design. Note the extended visor which admits sun rays in cold seasons but precludes sun heat in summer.



Added to a conventionally-styled roof is this extended lattice-type visor. It frames a series of horizontal louvers, the angles of which exclude the summer sun.

(Above) Looking down on the lattice-type visor of the house at the left. (Below) Front view of this type of roof overhang, with vines that bar entrance of summer sun.

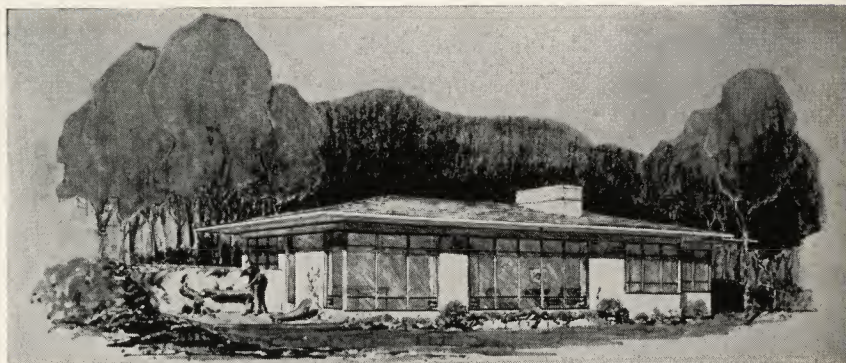




# Solar Housing

## OPENS UP HOUSE WALLS

(Right) This more conventional house design by Architect T. Y. Hewlett provides a modern wall of glass for southern exposure with an extension of the conventional roof line.

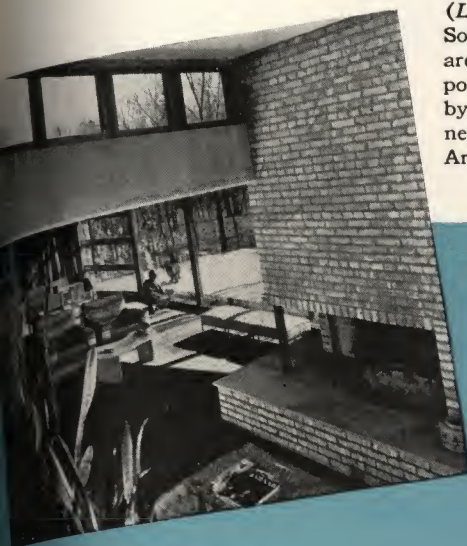


(Below) The sun wall of a Solar House designed by Architect George Fred Keck. Note the full expanse of glass in the southern exposure.



Actually, Thermopane makes possible a far greater use of glass than heretofore has been possible, due to its exceptional insulating property. By "opening up" the walls of a house, an entirely different atmosphere is created—a new trend toward more enjoyable living—which was first introduced in the original Solar Houses. No matter what design you may select for your home, you can have the benefit of a new, refreshing outlook on life by utilizing the Solar House principle with walls of insulating glass.

(Left) In this outstanding Solar House, large window areas on the southern exposure are supplemented by clerestory windows, near the ceiling. Architect, Arthur Purdy.



(Right) In this open-plan design, the huge Thermopane windows serve as a "wall of glass"—opening up the house to the year-round beauty of outdoors.





# Thermopane

Reg. U. S.

Pat. Off.

## L · O · F INSULATING WINDOW PANE . . .

● Climaxing over fourteen years of research, L·O·F *Thermopane* is the first successful windowpane ever made with built-in insulation.

*Thermopane* is made of two or more panes of glass, separated by an insulating layer of dehydrated air, and sealed around the edges at the factory with a patented metal-to-glass bond — the *Bondermetic Seal*. This seal has successfully withstood a shearing force of over 1,000 pounds per

square inch—proof of its amazing strength.

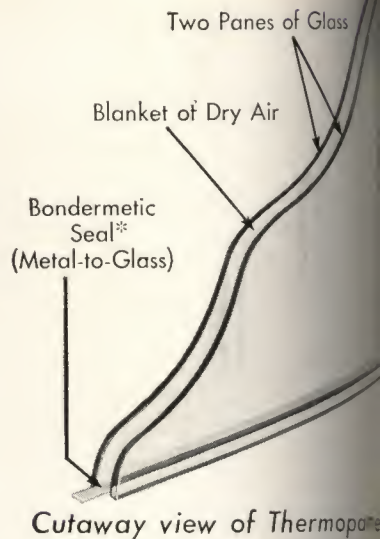
Until the advent of *Thermopane*, large window areas were generally conceded to be impractical in temperate and cold climates because of excessive heat losses. Because of its double-glass construction, *Thermopane* keeps homes warmer in winter and cooler in summer. In addition to reducing heating costs and providing savings in air conditioning, *Thermopane* deadens the transmission of outside noises.



Rooms look larger . . . seem to stretch out to include the outdoors, through Picture Windows. Glazed with *Thermopane*, large windows assure greater comfort. This insulating unit cuts heat loss and reduces downdrafts at windows . . . saves fuel in winter. In summer, *Thermopane* helps keep rooms cooler.

## 12 Points TO REMEMBER ABOUT *Thermopane*

1. Reduces heat loss through glass—saves fuel.
2. Reduces downdrafts at windows.
3. Is a metal-to-glass welded insulating unit.
4. Provides the benefits of storm sash without the bother.
5. Offers year-round double-glass protection.
6. Is suitable for all window openings.
7. Increases efficiency of air-conditioning equipment.
8. Reduces possibility of condensation.
9. Enables maintenance of uniform temperatures.
10. Reduces transmission of noise.
11. Provides day-by-day health and comfort benefits.
12. Is installed in a sash similarly to a single pane.





# MAKES PRACTICAL Larger Windows

WITHOUT EXCESSIVE HEAT LOSSES

*Right:* Enjoy beauty that changes each season . . . through Picture Windows glazed with Thermopane to assure greater comfort all year in all climates.

*Below:* In this Michigan home, winter beauty comes indoors through expanse of insulating Thermopane. Architect: Irving E. Palmquist, Detroit.



## SPECIAL GLASSES IN THERMOPANE

● Thermopane may be fabricated with a special purpose glass on the outside. Heat Absorbing Glass keeps rooms cooler in summer; Golden Plate Glass protects against sun fading; colored Plate Glass gives unusual effects. And, where it is desirable to obscure views, Thermopane may be fabricated with Blue Ridge Patterned Glass.

## THERMOPANE...FOR EVERY WINDOW IN YOUR HOME

● All the windows in your home can be self-insulating . . . with Thermopane. It's made in a wide range of standard sizes to fit casements, double-hung and fixed Picture Windows. You can use Thermopane in all the window styles shown on Page 2 of this book, as well as in doors, side-lights and transoms.

Thermopane provides double-glazing in the most practical and convenient form. It stays in all

year. Your windows open and close just like single-glazed ones. You need no storm sash.

### *Ready-made Sash for Thermopane*

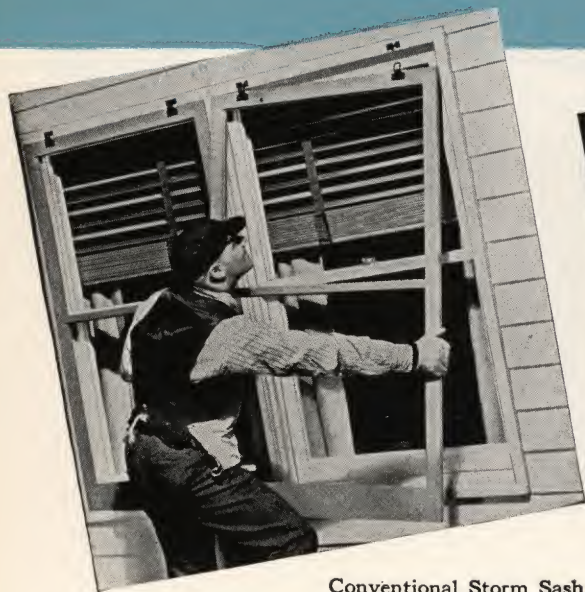
Standard windows suitable for Thermopane are being made by manufacturers of wood and metal sash. They are available from lumber and building supply dealers. Sash for Thermopane can be installed in your home as easily as ordinary windows . . . offer no problems to your builder.



# Window conditioning

FOR GREATER COMFORT  
FULL ECONOMY AND HEALTH

● Just as an individual needs additional clothing as protection against cold weather, so can homes benefit by Window Conditioning—the addition of Storm Sash. Government experts declare that from 25 to 30 per cent savings in fuel may be had by the addition of Storm Sash alone.



Conventional Storm Sash are inexpensive and effective against heat losses.



A metal-framed pane of glass, installed from inside a double-hung window retards heat escape.



Interchangeable Storm Sash and screens for casement windows assure greater satisfaction year-round.

● Complete Window Conditioning for your home will provide far greater comfort . . . will help eliminate floor drafts . . . and will help your pocketbook in fuel saved. Since heat always flows from a warm to a cold object, interior heat

in the house not fitted with extra sash passes to the outside cold winter air. Double-glass insulation keeps your heat *inside*. Investigate the savings and health advantages of double glass insulation,



# L·O·F

## POLISHED PLATE GLASS

● For fine Picture Windows and mirrors there is no substitute for Polished Plate Glass. This glass is ground and polished with the objective of making both sides flat and parallel, thus providing clear vision with a minimum of distortion. Picture Windows provide clear visibility when made of Polished Plate Glass. The extreme flatness of this glass is even more important in fine mirrors, for surface irregularities and distortion of regular glass are absent. This flatness and freedom from distortion are two of the reasons why Polished Plate Glass is invariably selected for display windows in stores and shops.



## L·O·F TUF-FLEX GLASS

● Tuf-flex is plate glass that has been treated by a special tempering process to give it greater resistance to physical and thermal shock. Tuf-flex is widely used in stores as doors and stair rails. Its greater strength may also be of interest to home owners, for it adds safety wherever glass might be banged or exposed to intensive heat.

## L·O·F HIGH-QUALITY WINDOW GLASS



● Libbey-Owens-Ford Window Glass is exceptionally clear, and has a natural fire-finished surface in which distortion is held to a minimum. It is made by an exclusive Flat Drawn Process which produces a clear, bright glass of unusual flatness. Due to the longer annealing process employed, L·O·F High-Quality Glass is less brittle, and can be cut much easier with less breakage. For windows, doors, storm sash, and in cabinet fronts and shelving, it has proved its merit. The well-known L·O·F Window Glass label is your guarantee of the best in window glass.





**FOR COLORFUL, SANITARY  
FIRE-PROOF, EASY-TO-CLEAN WALLS**

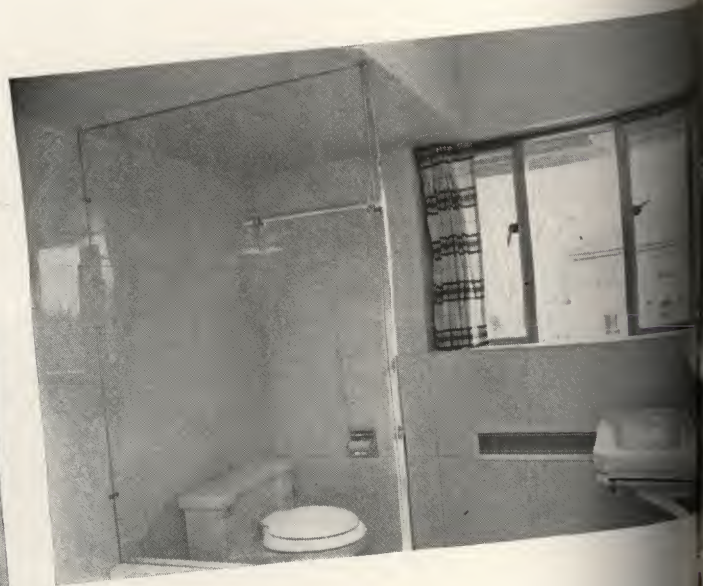
**▶ Vitrolite**

Reg. U. S. Pat. Off.

● No other interior-finish material is more suitable to the private home—particularly in bathroom and kitchen—than Vitrolite structural glass. Its highly polished surface is “smooth as glass” for it *is* glass! Vitrolite, while opaque, is available in a variety of

colors that lend themselves to any decorative scheme. It is unaffected by ordinary household acids and alkalis . . . resists scratching and marking, and is easily and quickly cleaned with the whisk of a damp cloth. Vitrolite never needs resurfacing.

Vitrolite is ideal for walls in bathrooms because it cleans so easily. Because of its nonporous surface, it provides no hiding place for germs . . . and is resistant to water and other liquids.

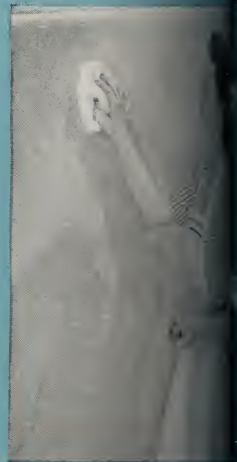


Smooth, sparkling and colorful, Vitrolite kitchen walls are easily cleaned . . . unaffected by moisture and odors. The smart appearance of these walls is a source of pride to any housewife.

**QUICKLY CLEANED WITH A DAMP CLOTH** ▶

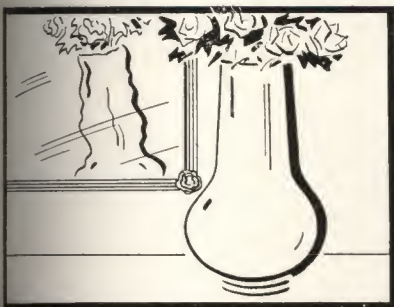
● The hard, smooth surface of Vitrolite makes it exceptionally easy to clean and keep clean. All that's needed is a quick once-over with a damp cloth or, if badly soil-

ed, washing with mild soap and water. Because of the many colors available, practically any color scheme can be worked out for kitchens and bathrooms.

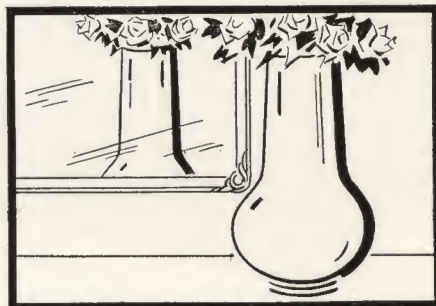




# THE BEST MIRRORS ARE MADE WITH L·O·F POLISHED PLATE GLASS



You can quickly check the quality of a mirror by noting the correctness of its reflections. At the left, inferior glass reflects irregular lines—causes distortion. At the right, a good mirror made with Polished Plate Glass has true reflections.



● The finer mirrors are always made of Polished Plate Glass because this kind of glass gives clearer, truer reflections and greater brilliance. At the left, an unframed mirror of L·O·F Polished Plate Glass makes a narrow dining room look wider and adds never-fading sparkle. Libbey·Owens·Ford high-quality Polished Plate Glass is used by many of the country's finer mirror manufacturers. Some homeowners and many specialty shops and department store owners prefer colored mirrors. Libbey·Owens·Ford makes Polished Plate Glass in a variety of colors. If you desire mirrors of colored plate glass, your local L·O·F Distributor, your architect or interior decorator will make color recommendations.

THIS LABEL IS YOUR GUARANTEE OF TOP-QUALITY MIRRORS

● To protect the buyers of mirrors, Libbey·Owens·Ford has developed this Mirror Label. By agreement with mirror manufacturers using L·O·F Polished Plate Glass, this red, white and blue identification label appears on all such mirrors made with our glass. It is a symbol of protection. Whenever you buy a mirror, be sure that it bears this shield of quality, featured by better department and furniture stores everywhere.





# Decorative Glass

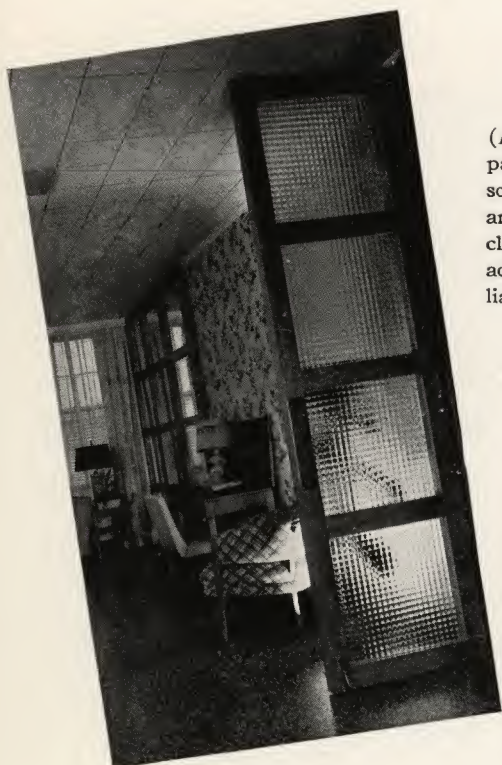
TO MAKE YOUR HOUSE  
BRIGHTER AND MORE

# Livable

● Lighter, brighter and more sparkling interiors are easily possible in homes of any price range through the use of Blue Ridge decorative glasses. These translucent glasses add character and quality to otherwise plain interiors. Whether used as screens to glaze windows against an undesirable view, or to transmit light to otherwise dark areas while adding a decorative touch, Blue Ridge figured glasses are entirely in keeping with an architect's or decorator's concept of beauty and utility.



Smartly patterned Blue Ridge Glass not only adds a touch of beauty but transmits light to this room.



(Left) Another use for patterned glass—as a screen to separate one area from another. Here, clear Doublex is used, adding sparkle and brilliance to rooms.

(Right) Lighting experts have stressed the value of better illumination in the kitchen. Here's a trick to put light on the work surfaces where it's needed, by glazing with Doublex figured glass with Satinol finish.





## SEE YOUR ARCHITECT FOR BUILDING SATISFACTION



● There is no surer way for a homeowner to assure satisfaction for himself and his family than to employ a reliable architect.

Architectural services represent a guarantee to the homeowner of serviceable design, good workmanship and quality materials. An accredited architect is a specialist in his chosen field . . . knows building materials . . . recognizes quality and design

. . . and is familiar with local building practices. In home construction he is responsible to the home investor.

Libbey-Owens-Ford does not design homes or buildings, but we recommend that, before you build, you obtain the services of a competent architect to protect your investment and assure you top quality in materials and construction.

## SEE YOUR L · O · F DISTRIBUTOR FOR THE RIGHT KIND OF **Glass** FOR YOUR HOME

● Just as you depend on your hardware dealer as a source of supply for hardware items, so can you depend on your local Libbey-Owens-Ford Distributor for all kinds of flat glass items. He is acquainted with your architect . . . and your architect is acquainted with an L·O·F Distributor's product services. He will be glad to offer

suggestions . . . will show you samples of the specialty glasses which daily are becoming more important to good home construction. Regardless of the type of home you expect to build, feel free to consult your Libbey-Owens-Ford Distributor for any information or help you may need in selecting the right kind of glass.



# LIBBEY • OWENS • FORD DISTRICT OFFICES

Atlanta 3, Ga. Lamar 0066  
1001 Whitehead Building

Boston 16, Mass. Hubbard 2-0100  
1437 Statler Building

Buffalo 3, N. Y. Cleve. 0291  
1112 Rand Building

Chicago 3, Ill. Central 6-2490  
120 S. LaSalle Street

Cincinnati 2, Ohio Main 6174  
912 Enquirer Building

Cleveland 13, Ohio Main 7180  
1302 Terminal Tower Building

Dallas 1, Texas Riverside 4026  
1402 Tower Petroleum Building

Denver 2, Colo. Tabor 8015  
414 Tramway Building

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Indianapolis 4, Ind. Franklin 1363  
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Kansas City 6, Mo. Victor 5360-61  
619 Dwight Bldg.

Washington 6, D. C. Sterling 4472  
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816 West Fifth Street

Memphis 3, Tenn. 37-7589  
540 Sterick Building

Milwaukee 3, Wisc. Broadway 2-5704  
161 W. Wisconsin Avenue

Minneapolis 2, Minn. Main 8429  
506 WCCO Building

New York 22, N. Y. Eld. 5-1025  
570 Lexington Ave.

Philadelphia 2, Pa. Penny. 5-8666  
1528 Walnut Street

Richmond 19, Va. 3-3034  
1122 Mutual Assurance Society Building

St. Louis 1, Mo. Central 9863  
411 N. 7th Street

San Francisco 5, Cal. Sutter 1-4360  
116 New Montgomery Street

Seattle 1, Wash. Seneca 2513  
210 Lloyd Building

Toledo 3, Ohio Main 5291  
12th Floor Nicholas Building



## LIBBEY • OWENS • FORD GLASS COMPANY

Nicholas Building

Toledo 3, Ohio





how to choose

your thermostat





***the thermostat** is the key to your heating system. It automatically starts and stops the burner to control the heat for your comfort. The time you spend today in selecting the right thermostat for your home will be well repaid in the years ahead. Plan now to enjoy rich dividends of fuel savings, better health and more comfortable living.*

### **uncontrolled heat**

- . . . hangs up at the ceiling when you need it below.
- . . . wastes itself when you are asleep or away.
- . . . loafs or overheats in mild weather when you want "just a little" heat.
- . . . makes sleeping uncomfortable when you like it cool.
- . . . produces chills and drafts which cause discomfort and may cause ill health.

**A**ll the heat in the world  
won't make your home  
comfortable unless . . .  
you control it properly.

### **controlled heat**

- . . . distributes itself evenly for comfort at all levels.
- . . . saves costly fuel through efficient system operation and lowered night temperature.
- . . . relieves you entirely from bothersome supervision of your heating system.
- . . . regulates heat for your sleeping or rising comfort.
- . . . helps you enjoy better health and more pleasant atmosphere in your home.



**choosing the right  
thermostat is important!**



# what to look for in a **thermostat**



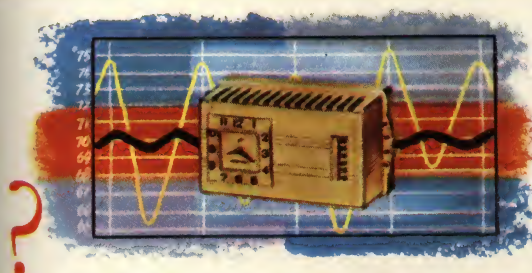
## how will it look on your wall?

As the thermostat will be located in the living area, its appearance is very important to you. The thermostat should be designed so that it always will be in good taste. Honeywell thermostats have been styled by America's outstanding industrial designers. They are noted for their simple lines and functional beauty. The Honeywell thermostat on your wall will be an attractive symbol of good heating and comfortable living in your home.



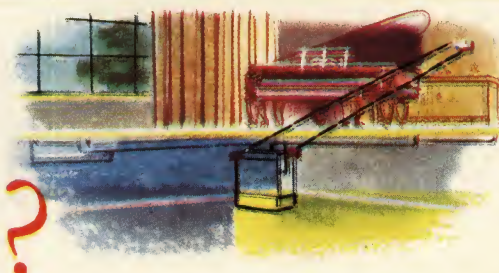
## is it dependable?

Thermostats, like watches, vary in quality and craftsmanship. "Bargain" thermostats, like cheaper watches, are not always accurate or dependable. They often require more service and waste valuable fuel. Therefore, a quality thermostat is your best buy. For over 65 years Minneapolis-Honeywell has enjoyed a reputation for high quality products. Today, Honeywell thermostats represent the best and latest developments in heating control.



## is it accurate?

How comfortable will you be in your home? The answer will be determined by the accuracy of your thermostat. Some merely keep the temperature between "hot" and "cold" limits. Better thermostats are designed to sense the heating requirements quickly and accurately and to time the burner accordingly. Honeywell thermostats employ a special "Comfort" feature which assures *comfort* . . . rather than just temperature control.



## how does it fit into the system?

Each type of fuel and each type of heating requires its own special system of control. In general, a system consists of the thermostat to control room temperature, limit controls for safe operation, and firing devices to control and ignite the fuel. These units should be matched so that they operate as a coordinated team. The Honeywell line of controls is complete. You can choose matched units to fit all your needs.



**plus**  
this extra  
comfort  
feature!

If you want to be sure of uniform room temperatures without "heat waves" or "cold chills" . . . if you want perfect heating in all weather . . . make sure that your new thermostat has the new Honeywell "COMFORT" feature.

Honeywell engineers have worked out an ingenious "heat control" device in the thermostat. With this special feature the thermostat automatically adjusts the timing of the burner to meet varying weather requirements. The burner operates more efficiently . . . the heat to your rooms is distributed more evenly and continuously . . . and you save fuel while enjoying this new Honeywell achievement in comfort heating.





**which one of these three  
thermostats should you use?**

*In selecting your thermostat, you will want to decide which control features you want in your home. There are differences in what each model can do for you. A standard thermostat is usually included with your furnace or boiler unless you choose otherwise. The important thing is to make sure it's the type of thermostat you want. You should make certain that it is adapted to your daily needs. The thermostats shown to the right may be used with any type of heating system or any type of fuel. Now is the time to make your choice. Then, be sure to make your wishes known to your architect, contractor or heating engineer.*



***Chronotherm* for completely automatic  
day-night heating comfort**

Here is a clock-style thermostat for you who want to enjoy automatic heating at its very best. The *Honeywell Chronotherm* will assume complete responsibility for your comfort both day and night. It does everything . . . even pays for itself.

The Chronotherm is an electric clock thermostat which automatically matches the room temperature to your living schedule. All day long it controls the burner to maintain the exact temperature you want. A special "Comfort" feature in the instrument assures extremely accurate control. It senses heat requirements quickly. There is no under-heating to cause chills, no overheating to waste fuel.

At bedtime, this never-forgetting instrument lowers the room temperature as you wish for your sleeping comfort. Thus, it helps you enjoy healthful, refreshing sleep. At the same time, it saves up to 20% of your costly fuel.

Then, in the morning the Chronotherm automatically raises the room temperature to the daytime comfort level. By the time you are ready to arise, your home is warm and cozy. You enjoy automatic, care-free comfort in your home every minute of the day.

If you plan to leave over a week-end, it's a simple matter to save fuel while you are gone. The handy finger-tip levers on the Chronotherm allow you to lower the temperature settings as you wish. These levers also provide a convenient means for changing the day or night temperature settings to meet your personal requirements.

The Chronotherm, with its handsome clock-face, neat horizontal lines, and rich silver-bronze finish, will be an attractive addition to your home. Both internal and external construction show outstanding Honeywell design and craftsmanship.

With the Chronotherm you get daytime heating comfort . . . refreshing sleep at night . . . and warm rooms every morning. Best of all, it pays for itself over and over again through fuel savings. Be sure to ask for it by name . . . HONEYWELL CHRONOTHERM. It's the clock that says "a warm good morning".



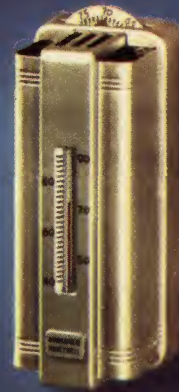


### **Time-O-Stat** for semi-automatic day-night temperature control

This moderately-priced Honeywell thermostat will control room temperatures accurately for your day or night comfort. Like other Honeywell thermostats, the Time-O-Stat operates on the "Comfort" principle, assuring uniform heating in all weather.

A timing device in this thermostat provides for semi-automatic day-night operation. You simply set the timer each night before retiring. Then, the Time-O-Stat will maintain lowered room temperature to save fuel and to help you enjoy cool, refreshing sleep.

In the morning, it will automatically raise the temperature again so that the rooms will be warm and comfortable. The handy timer makes it easy to adjust the Thermostat to your daily living schedule. With a Time-O-Stat in your home you can enjoy 24 hours of comfort every day while saving fuel.



### **Acratherm** for uniform room temperature 24 hours a day

Here is a top-quality thermostat at low cost. The Honeywell Acratherm is good looking, dependable and accurate. Every part, from the rich silver-bronze cover to the full-sized bimetal sensing element, shows careful design and expert Honeywell craftsmanship.

The Acratherm maintains the exact temperature you select both day and night. A simple finger-tip dial at the top makes it easy to readjust the setting to meet your daily requirements. The attractive, easily read thermometer on the face of the instrument gives constant indication of room temperature.

Though the price of the Acratherm is comparatively low, the special Honeywell "Comfort" feature is included. This means smooth, even heating for your comfort in all weather. Accept nothing less than a Honeywell Acratherm for your home.

### **what about this matter of cost?**

From the moment you first considered building a home, you have probably become more cost-conscious than ever before. It is wise to become *value conscious* as well. Frequently a "bargain" turns out to be merely an inferior article that falls far short of your expectations.

If you can cut a few dollars in *initial cost* by installing a "cut-rate" thermostat instead of the better quality . . . do you actually save? In choosing a thermostat, you literally present it with a "blank check" to spend your fuel dollars as it sees fit. Your thermostat will have direct responsibility for the use of many hundreds of dollars worth of fuel. A cheap, inaccurate thermostat causes people to

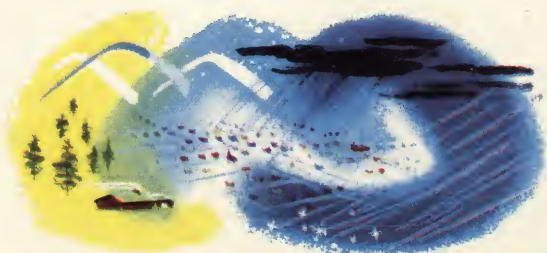
raise the temperature setting in an attempt to eliminate "chilly" periods. This waste of heat, plus costly service calls, can add up to a large amount of money over a period of years. Your initial savings in cost will be lost many times over.

Is a clock thermostat for lowered night temperatures worth the investment? U. S. Government figures\* show that lowering temperatures at night will save from 9.6% to 21.9% of your fuel. (The percentage of savings is greatest in milder climates, but the dollar-and-cents saving is, of course, greater where winters are colder.) Check these figures against your fuel bill and you will see how quickly the clock thermostat pays for itself. It you want a bargain in thermostats . . . buy the best.

\*Based on findings of the Fuel Conservation Council for War.



# how many **thermostats** should you have?



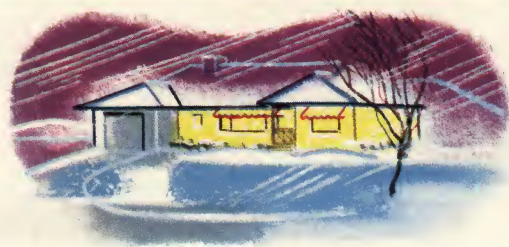
## **for comfort in all weather**

Sometimes one thermostat in a single location cannot estimate the heating requirements for the entire home. One section of your home may face the sun while another is sheltered. There may be wide differences in glass area or in exposures to wind. You may want some areas warmer than others. Any thermostat—no matter how good it may be—can only measure the temperature in the room in which it is located. Several thermostats may be needed for best results.



## **rambler or ranch style homes**

Quite often, more than one thermostat is required to control the heating effectively in rambler or ranch-style homes. Because of the "spread-out" design of this type of home, heating requirements vary from one group of rooms to another. Changes in weather or occupancy may cause some rooms to be colder than others. The best solution is to divide the heating system to fit the home's natural heating areas and to provide a Honeywell control system for each section.



## **small compact homes**

Usually, only one thermostat is required in homes that are small or compactly arranged. It should be located in the living area near the central part of the house to measure the average temperature. If the house has unusual construction features, a second thermostat may be required. Typical examples are a basement amusement room or upstairs bedrooms. Your architect, heating engineer or contractor is familiar with your home plans and will be well qualified to advise you.



## **larger homes**

The problem of determining the number of thermostats for a large home is basically the same as for the homes discussed above. Weather effects upon each area and the living activities planned determine the answer. Each floor requires individual planning. Just as several thermostats give more comfort and fuel economy than one . . . so individual thermostats in each room give even better results. For personalized comfort ask for Honeywell Individual Room Control.



**Honeywell  
Electronic  
Moduflow**

This new Honeywell control system uses thermostats both indoors and out. It senses changes in outdoor temperature before they are felt inside. As a result, your heating system can anticipate heating requirements. For further comfort, two room thermostats are used in most installations. They measure the temperature at separate locations in your home. Electronic Moduflow is recommended for all large and rambler-type homes . . . particularly those with radiant panel heating. It reacts to temperature changes over 100 times faster than conventional systems. Think of what this means to you in increased comfort. For deluxe heating control, specify Honeywell Electronic Moduflow.





## it's so easy if you act **now!**

*Now is the time when your architect, heating dealer or contractor wants your ideas. He will mold these ideas into the plans and specifications for your home. Be sure to mention the type and make of thermostat you prefer. Discuss the number and location of the thermostats. Make sure Honeywell controls will be used throughout. If you clarify these points now, you won't be disappointed in results later.*

### get these two questions settled:

1. What thermostat. (See pages 4 and 5.)
2. How many thermostats. (See page 6.)

### here's extra information for you

Do you have any questions? Would you like further information on planning your comfort? Mail the attached postage-free card today. We will be glad to send you a handsome 24-page illustrated booklet on "10 Ways to Heat Your New Home". This colorful booklet discusses home heating simply. It covers radiant panel heating, solar heating, the heat pump, the various warm air, hot water and steam heating systems, fuels, radiators, reg-

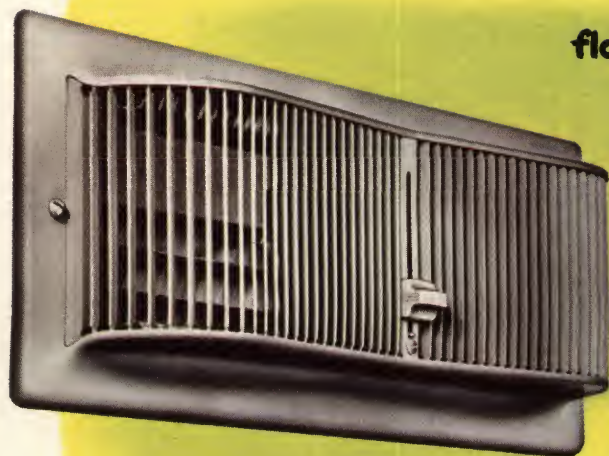
isters and dozens of other items of interest to the homeowner or homebuilder. With the booklet we will send any further information that you may want on Honeywell Automatic Controls. *Be sure* to include the name of your architect, contractor or heating dealer when you write. We want to furnish him with information, too. It will help him so that he can better assist you in working out plans for more comfort in your home.

**MINNEAPOLIS-HONEYWELL REGULATOR CO.**

**MINNEAPOLIS 8, MINNESOTA**

write for  
**FREE**  
literature  
today!





**flow the heat to**

**every nook and cranny**

**of your home**



**Choose the HONEYWELL AIR DIFFUSION REGISTER**  
**for your forced warm air heating system**

Will you use warm-air registers in your home? Then, choose them as carefully as you did your thermostat. They are important, too. If old-style registers are used, the air does not spread out properly. It often produces irregular air currents and uncomfortable drafts.

This condition can be avoided easily with modern Honeywell Air Diffusion Registers. These scientifically designed units have small metal blades which distribute the air softly and evenly. These blades may be set for any air pattern your rooms may require.

Modern Honeywell registers have an attractive ap-

pearance on your wall. The edges are sealed with a special rubber strip so that dust and dirt can't creep out. Draperies, curtains and furniture stay fresh longer. The soft, even air pattern eliminates the air streams that smudge your furnishings.

The Air Diffusion Register helps you save fuel, too. It's easy to shut off or reduce heat to unused rooms or bedrooms with the handy finger-tip control.

Be sure to mention the Honeywell Air Diffusion Register when you discuss your plans with your architect, contractor or heating engineer. Don't leave it to chance if you want pleasing warmth in the years ahead.



**MINNEAPOLIS - HONEYWELL REGULATOR CO.**

**MINNEAPOLIS 8, MINNESOTA**





A deep green ceramic mosaic tile floor in this Early American breakfast room makes a pleasant background of color and the utmost in utility.

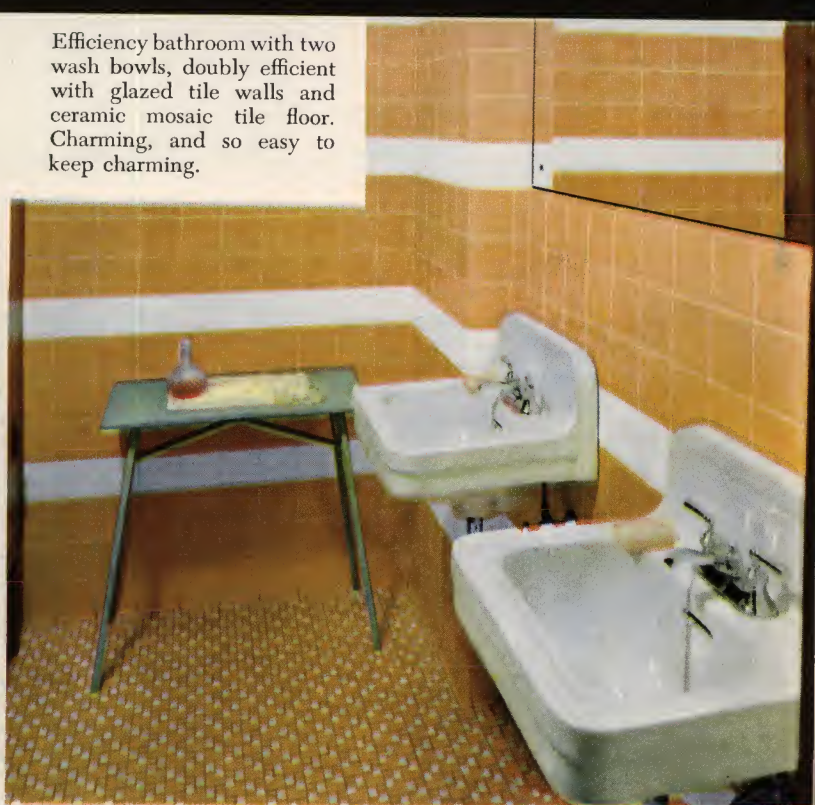


Durable, sanitary, long wearing and beautiful. The ceramic mosaic floor and dark red wall tile splashboard are features of this kitchen.

# TILE'S *Lasting Beauty* NEVER NEEDS REPLACING



Specially crafted Mosaic facade tile has made this floor a thing of beauty. Maintenance? Just mop, sweep or vacuum. The color never fades.



Efficiency bathroom with two wash bowls, doubly efficient with glazed tile walls and ceramic mosaic tile floor. Charming, and so easy to keep charming.

**THE MOSAIC TILE COMPANY**

(Member—Tile Council of America)

GENERAL OFFICES—ZANESVILLE, OHIO

OFFICES IN PRINCIPAL CITIES

**MOSAIC**



THESE PICTURES ILLUSTRATE THE

# Utility of Tile

TO MAKE YOUR HOME INTERESTING AND ATTRACTIVE

Long ago, ceramic art found its way into countless uses. Hardly any other material retains its form and beauty so long, so well. The uses pictured here illustrate some ways in which ceramic tile can give your home added charm plus greater utility. Remember, no other material gives you so much for so little—over the years. And in tile, the color lasts!

★ Mosaic offers a wide range of colors for wall and floor tile in its Harmonitone line.

In Mosaic tile, with its many types and sizes, you have an exciting choice of colors. Mosaic wall and floor tile colors are newly styled for modern color selection.



Mosaic's Cherokee quarry tile makes an effective floor in this attractive Florida residence.



The choice of Mosaic's quarry tile for the living room floor of this California home, was made for its beauty and rugged utility.



An example of color harmony in tile as achieved with Mosaic's Harmonitone panel of related wall and floor tile colors.



Mosaic's quarry tile leads the way into modern home with its functional sliding cabinets and comfortable interior.





ing takes the place of a  
bathroom. It stays beautiful  
long as the building stands;  
use gracefully; never needs  
placement; is always clean.



For both beauty and ease of  
cleaning, this owner chose Mo-  
saic's granitex tile for his living  
room floor. Fireplace and hearth  
are faced with deep red wall tile.



Real kitchen convenience can be  
yours in a setting like this. Cook-  
ing, serving, storage, household  
records—all in a compact unit.  
Walls and work surfaces of tile  
mean the utmost in cleanliness  
with a minimum of effort.





Decorated tiles are popular for many purposes — fireplaces, window sills, hot plates for table settings, wall plaques, table tops, etc. This fireplace is decorated with Mosaic's famous Glouster series, especially popular with Colonial mantels.

Some popular Mosaic decorated tile are shown at right. *Top row* is the charming Lee series, delicately colored and suitable for many uses. *2nd row* is the Glouster series available in blue, sepia and mulberry. Sepia and mulberry are illustrated in the *3rd row*. *4th row* is the distinctive Charleston series, a modern floral pattern. *5th and 6th rows* illustrate a group of popular floral and geometric patterns.



Beautiful is the word for this modern kitchen. Tile makes it everlastingly beautiful—always easy to clean. Once it's done with tile—it's done forever.



Soft grey and luscious green—just one of the hundreds modern color combinations available to you with Mosaic's Harmonitone line. And, of course, tile always means maintenance and no replacement.





*make your dream kitchen come true ...*

*get **Kelvinator!***



# Plan

## FOR GREATER ALL-AROUND PLEASURE

### WITH EFFICIENT, KELVINATOR-EQUIPPED "WORK CENTERS"



### Food Cooking Center

For your "cooking center," select the range that will give you the many advantages of electric cooking at its best. That's the beautiful new Kelvinator "Automatic Cook" Electric Range . . . which makes cooking far easier, faster, more pleasant than you ever thought it could be!

All controls are conveniently located on the recessed, sloping panel of the range backguard. They're easy to reach—easy to see, yet out of the way of children's hands. This simplified "Automatic Cook" control starts, times and stops oven, Scotch Kettle (deep well) or plugged-in electric appliances automatically . . . gives you welcome new leisure. And many other features, as pictured at the right and listed on pages 4 and 5, make the Kelvinator range your wisest choice for extra-value and all-around satisfaction.



### Food Storage Center

Home planners agree that the family's food requirements are best served by *two types* of food storage: (1) Protection of perishable foods used daily and (2) Long-term storage of perishables in frozen food form. Now the first requirement with Kelvinator's great Masterpiece refrigerator . . . for it provides *full-range food-keeping*—the right conditions of cold and moisture for every kind of perishable food.

This *all new* refrigerator is one of Kelvinator's superb new Masterpiece models. It's refrigerated clear to the floor! Gives you a big 11 cu. ft. of cold space in the floor space of most prewar "6's"!

These great advantages, combined with the advanced features at right and on pages 6 and 7, are obtainable only in the new Kelvinator Masterpiece Refrigerators!



**Complete your Food Storage Center** with the Kelvinator Home Freezer for long-term, frozen food storage.

You can enjoy amazing new convenience, economy and better living with this handsome appliance at your service. Because you can keep plenty of frozen foods on hand, one marketing trip does the work of several. Meal-planning is simplified—just raise the lid and choose your menu from a rich variety of foods, in their full *natural* color and flavor. And you'll save, too . . . because you'll buy in season, in quantity and when it's most to your advantage to do so!

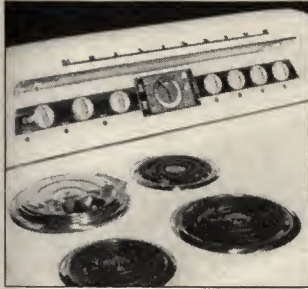
Resolve *now* to enjoy the better living that a Kelvinator Home Freezer can bring to your new home. (See features at right and complete product details on page 8.)



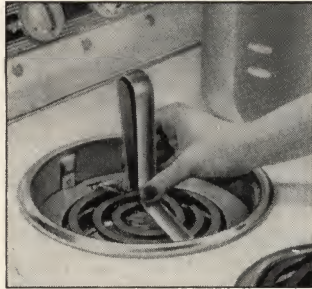
Choosing proper equipment for your food cooking and food storage centers is important to the beauty and charm of your kitchen . . . to its overall convenience and efficiency . . . and most important, to your own saving of time, energy and money. In the brilliant new Kelvinator appliances, you have exceptionally complete

and up-to-the-minute answers to these basic needs. Include them in your plans from the start, for they may be financed as part of your original mortgage. Then you can look forward confidently to a kitchen made more beautiful, more useful, far more desirable by Kelvinator electric appliances!

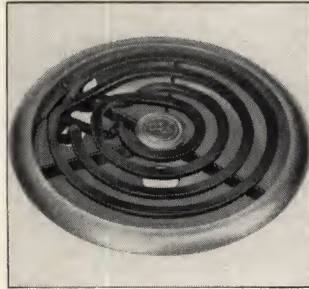
### EXTRA-VALUE FEATURES OF THE KELVINATOR ELECTRIC RANGE (Model ER-509)



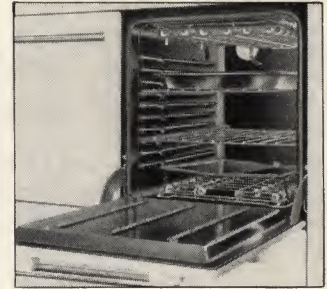
**MASSIVE BACKGUARD** has convenient Top-o'-the-Range control panel; at center is "Automatic Cook," for control of oven, Scotch Kettle, appliance outlet. Just "set it and forget it" for automatic cooking of complete meals.



**NEW "UP-DOWN" UNIT** is used with Scotch Kettle; also quickly converts into fourth surface unit when desired. Handy lifting device raises unit to range surface and locks it in place ready for instant operation.

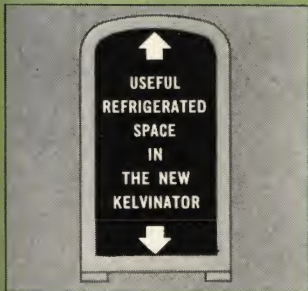


**SUPER-FAST ROCKET UNIT** brings a pint of water to scalding temperature in approximately 2½ minutes. Units tilt up and remain in upright position while reflector pan is easily removed for cleaning.

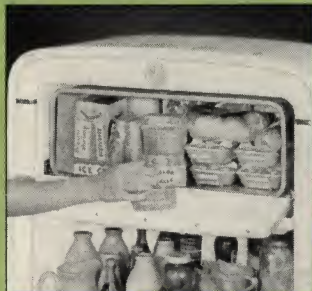


**OVEN** is oversize—full 16" x 16" x 19". Amply accommodates a 25-lb. turkey, complete meal, or six loaves of bread at one time. Deluxe Electric Broiler provides radiant heat that's charcoal-like in effect.

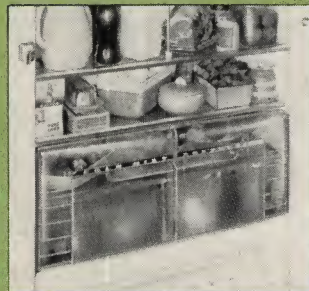
### EXTRA-VALUE FEATURES OF THE KELVINATOR REFRIGERATOR (Model MM)



**MORE SPACE INSIDE!** No bigger outside. Here's a roomy 11 cu. ft. of cold space master-engineered into the same floor space as most prewar "6's"! Beautiful long-door design, a Kelvinator "first" in refrigerator styling.



**FROZEN FOOD CHEST** is full-width, across-the-top at convenient eye level. Oversized to hold plenty of frozen foods and ice cubes. Drop-down door makes handy shelf for rearranging packages and ice trays.



**COLD-MIST FRESHENER**, enclosed by clear polystyrene doors and separately refrigerated, keeps naturally moist foods fresh, flavorful, nutritious. No need to use covers as there's neither moisture loss nor flavor transfer.

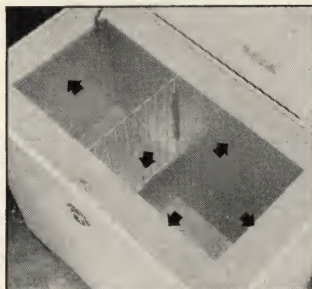


**SUPER CRISPER** provides more than a bushel of refrigerated storage space . . . for fresh fruits, vegetables, bottled beverages and juices! Full-cabinet-width drawer glides easily on roller bearings—even when fully loaded!

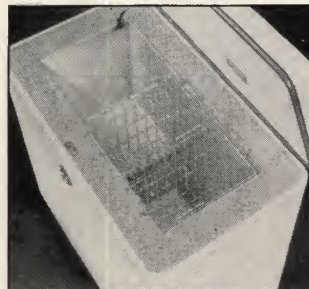
### EXTRA-VALUE FEATURES OF THE KELVINATOR HOME FREEZER (Model FL-6)



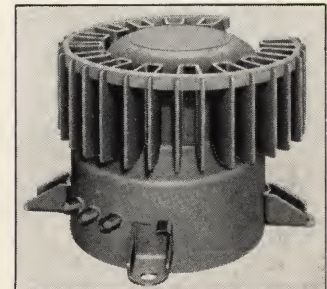
**FAR MORE STORAGE SPACE** than other freezers of same outside dimensions is provided by Kelvinator's "space-saving" design. Shadow outline shows bulk of ordinary freezer of same 6 cu. ft. capacity as Kelvinator.



**SAFE, DEPENDABLE** storage temperatures are maintained by refrigerating coils in four walls, also bottom of fast-freezing section. All foods within 7" of a sub-zero surface. Cabinet fully insulated with Fiberglas.



**WIRE BASKETS** provide convenient, orderly storage of packaged foods. Large, open storage space below baskets for packages. Note handy thermometer on center grid which divides freezing and general storage areas.



**PLUS-POWERED BY POLARSPHERE**, the same quiet, dependable, economical unit that is used in Kelvinator refrigerators. Precision-built unit is sealed in steel, permanently lubricated, backed by 5-Year Protection Plan.



# Beautiful **KELVINATOR** ELECTRIC RANGES

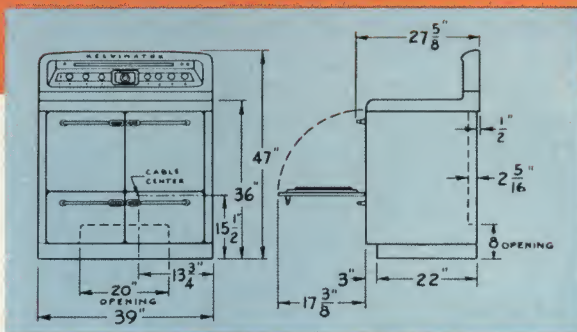


## RANGE MODEL ER-509

Kelvinator's "Automatic Cook" Electric Range gives you the utmost in cooking certainty, speed, convenience and cleanliness. And what a beauty it is!

"Tops" in convenience is the "Automatic Cook" control, center feature of the new Top-o'-the-Range Control Panel. The "Automatic Cook" takes over for you in cooking delicious complete oven or Scotch Kettle meals—automatically! Just place your prepared meal in oven or kettle, set the simplified controls for the desired cooking period. At pre-set time, cooking begins . . . stops at exact time you've indicated. Meanwhile, you can go and do anything you wish . . . come home to a complete meal ready for serving.

Other extra-value features: fluorescent top light . . . twin appliance outlets . . . Dual Interval 6- or 60-minute timer . . . Warmer Drawer . . . tilt-up, 7-heat surface units (includes one super-fast Rocket unit) . . . "Up-Down" unit that makes a fourth surface unit . . . Pressure Cooker, accessory for deep well. (See table opposite.)



Dimensions of ER-509 and ER-507



## RANGE MODEL ER-507

Deluxe styling and features in a quality range of medium price. Note how massive backguard centralizes all controls on easy-to-see and easy-to-reach sloping, recessed panel. Rocket unit . . . thrifty Scotch Kettle . . . Electric clock . . . Oven Timer and Minute-Timer . . . range-top floodlight . . . appliance outlet. See table opposite for complete specifications.

## RANGE MODEL ER-503 ▶

This range offers outstanding quality, extra convenience features moderately priced. Features include deluxe broiler, Scotch Kettle, 7-heat surface units (including Rocket unit). Accessories (automatic oven timer and lamp, shown on this range, is one of them!) give deluxe features at small extra cost. Complete specifications on opposite page.





# OR EASIER, BETTER COOKING AT LOWER COST

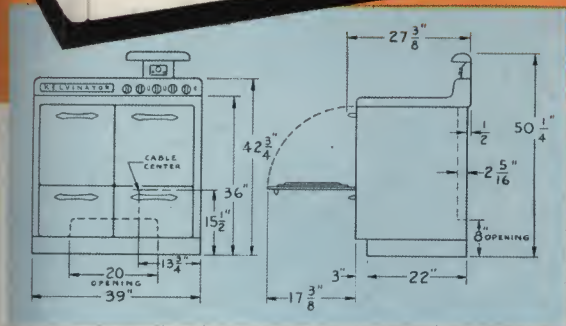
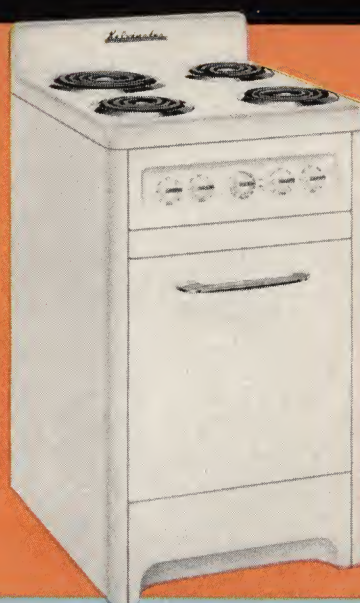


## ◀ RANGE MODEL ER-502

Offers the many advantages of electric cooking in the lowest-priced, full-size Kelvinator range. Has 7-heat surface units, oversized oven and thrifty Scotch Kettle. See table below for complete specifications.

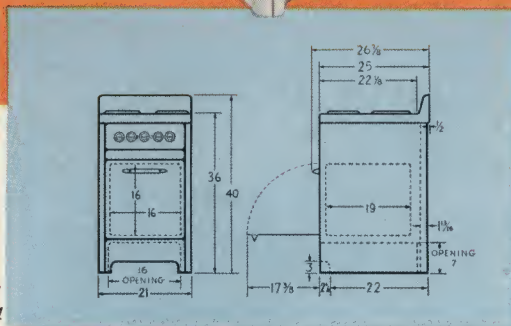
## RANGE MODELS ▶ ER-541 AND ER-501

These ranges are ideally suited to requirements of small kitchens. They feature 2-unit oven, tilt-up 7-heat surface units and other high-quality Kelvinator features. Model ER-541 (pictured) has 4 surface units. Model ER-501 with 3 surface units is basically the same as ER-541. Full details in chart below.



Dimensions of  
ER-503. Di-  
mensions of  
ER-502 are  
identical.

Dimensions of ER-541  
and ER-501



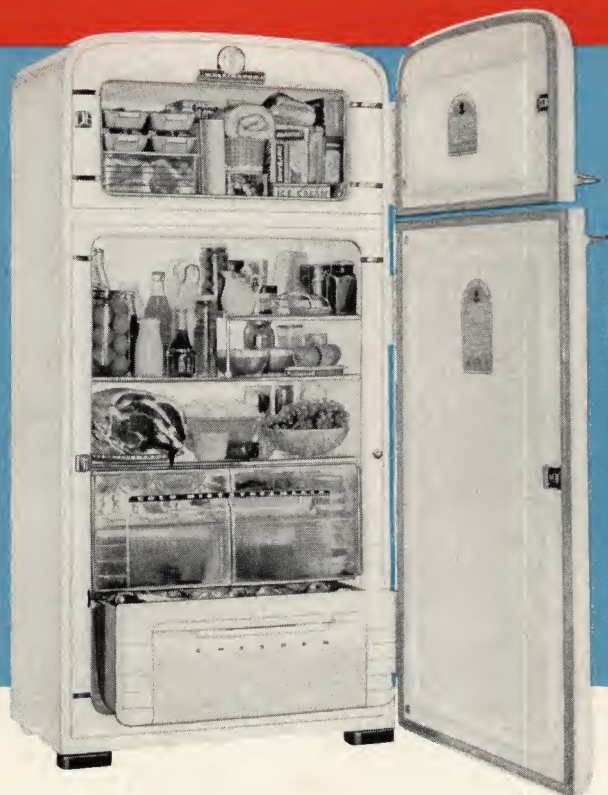
## USE THIS HANDY TABLE TO SELECT YOUR KELVINATOR RANGE

	MODEL ER-509	MODEL ER-507	MODEL ER-503	MODEL ER-502	MODEL ER-541	MODEL ER-501
<b>CONTROLS</b>						
"Automatic Cook" control of oven, Scotch Kettle or appliance outlet	x					
Oven timer for automatic oven control	(See above)	x	†	†		
Minute-Timer (dual-interval: 1/4-6 minutes—2 1/2-60 minutes on ER-509 and ER-507)	x	x	†	†		
Switch knobs—7 position, two-way type	x	x	x	x	x	x
Automatic oven preheat cut-off	x	x	x	x	x	
<b>COOKING FEATURES</b>						
Three surface units (7-heat, 2 of 6" dia., 1—8") with tilt-up design and beveled ring	x	x	x	x	4 units	x
Scotch Kettle (6 qt., self-basting, raised flat-top lid, adjustable trivet) ("Up-down" unit that converts to fourth surface unit on ER-509 and ER-507)	x	x	x	x		
Pressure Cooker (available as accessory)	x	x	x	x		
Oven—Oversized, (16" x 16" x 19") with two units, counterbalanced door, broiler-roaster pan and grill, 9 full-length embossed shelf glides, 2 non-tip shelves, concealed vent	x	x	x	x	x	x
Deluxe Broiler—with broiler roaster pan and grill	x	x	x	x	x	x
Super-fast Rocket Unit	x	x	x			
<b>OTHER FEATURES</b>						
Electric Clock	x	x	†	†		
Range toplight (Fluorescent on Model ER-509)	x	x	†	†		
Surface unit signal light (4 on ER-509, 1 on ER-507)	x	x				
Appliance Outlet (2 on Model ER-509)	x	x	x	x	x	x
Oven signal light for "ON" or "OFF"	x	x	x	x	x	x
Automatic Oven Floodlight	x	x				
Warmer Drawer with signal light (upper utensil drawer)	x					
Roller-bearing utensil drawers	3	3	3	1		
Cooking chart on drip tray	x	x	x	x	x	x
<b>FINISH AND CONSTRUCTION</b>						
Designed for Flush-to-Wall Installation	x	x	x	x	x	x
Acid-resisting (top-rated) white porcelain-enamel finish on top, front and sides	x	x	x	x	x	x
Porcelain-finished inside and out	x	x	x	x	x	x
Fiberglass oven insulation	x	x	x	x	x	x
Fully approved by Underwriters' Laboratories, Inc., Form "O", for installation against wood cabinets and walls	x	x	x	x	x	x
Recessed toe space	x	x	x	x	x	x
<b>DIMENSIONS</b>						
Overall Dimensions—Height (to top of backguard)	47"	47"	42 3/4"	42 3/4"	40"	40"
Height (work top)	36"	36"	36"	36"	36"	36"
Floor space	39" x 25"	39" x 25"	39" x 25"	39" x 25"	21" x 25"	21" x 25"

† Accessory at additional cost.



# Brilliantly New **KELVINATOR** **MASTERPIECE REFRIGERATORS**



▲ **MASTERPIECE MODEL TM**—A big two-door combination freezer and refrigerator that's the finest money can buy. Separate Freezer Chest provides zero-range storage for 80 lbs. of frozen foods and ice cubes. Lower compartment features include spacious enclosed Cold-Mist Freshener and 40-qt. Super Crisper Drawer. See table on next page for complete specifications on Model TM and also Model MM, single-door Moist-Master (not illustrated).

## *Cold Clear to the Floor!*

The Masterpiece models shown on this page are superbly designed, built to meet all your needs, give you everything you've always wanted in household refrigeration. Just look at the—

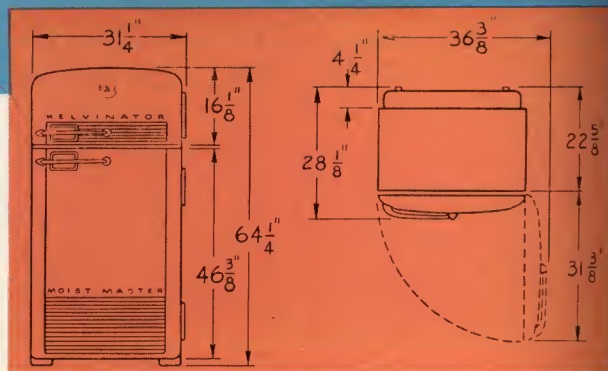
**BEAUTY**—styled for the years ahead, distinguished by long-door design. Interior styling strikingly set off by features of beautiful polystyrene, the miracle material.

**SPACE**—plenty of it—in an *all-refrigerated cabinet*, cold clear to the floor! 11 to 12 cu. ft. of cold space in the floor space of prewar "6's"!

**FROZEN FOOD CAPACITY**—oversize compartment for generous storage of delicious frozen foods and plenty of ice cubes.

**MOIST-COLD STORAGE**—keeps vegetables and salad greens fresh, crisp—looking their best, tasting their best for days longer. Refrigerated Super Crisper Drawer provides convenient storage for fresh fruits, vegetables, bottled beverages. Holds over a bushel!

**PERFORMANCE**—dependable and economical, assured by the famous sealed-in-steel Polarsphere, backed by 5-Year Protection Plan.



*Dimensions of Masterpiece Model TM*

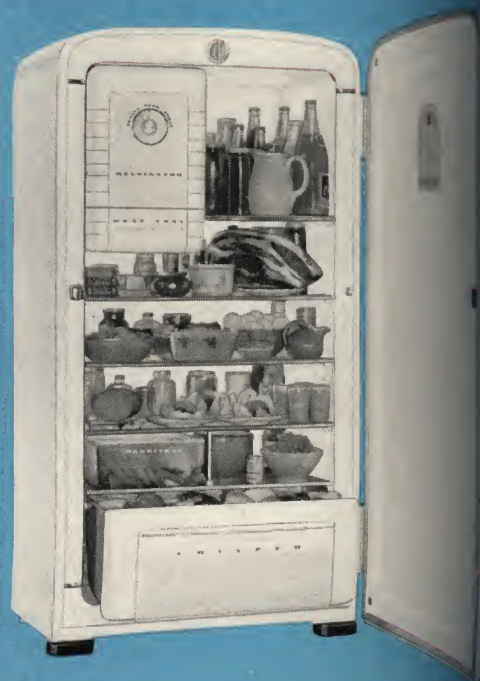


### ◀ **MASTERPIECE MODEL FM**

—Has a spacious 11 cu. ft. of storage space . . . cold-clear-to-the-floor. Across-the-top Frozen Food Chest has 50-lb. capacity. Adjustable full-width shelf and removable half-shelf provide extra-convenient storage flexibility. Super Crisper Drawer refrigerates *more than a bushel*. Plenty of tall bottle space.

### **MASTERPIECE MODEL VM** ▶

—Has 12 cu. ft. of cold space in the same floor space as a prewar "6"! Spacious side-mounted Frozen Food Chest holds 42½ lbs. Sliding Meat Tray of white polystyrene has ample storage space. The "VM" has roller-mounted Super Crisper Drawer, Handitray, adjustable full-shelf and lift-out half-shelf.



(See table on next page for complete specifications)

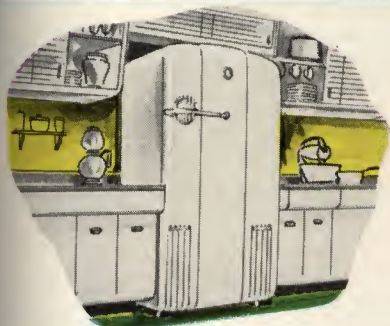


# Extra-Value IN THESE TWO NEW STANDARD KELVINATORS

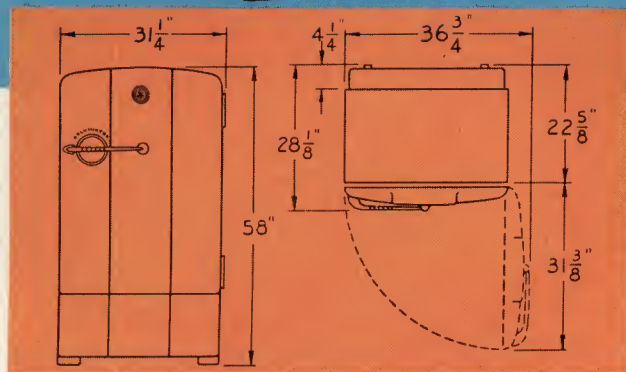


◀ **MODEL RL**—If you want an extra-large across-the-top Frozen Food Chest in a refrigerator of medium storage capacity, here's the refrigerator for you! This model also offers twin sliding Crispers (24-quart total capacity), roomy meat tray, beautiful one-piece stamped aluminum shelves. See table below for full specifications.

**MODEL RK**—A top-quality "8" with full-cabinet-width freezer of 40-lb. capacity. White polystyrene features include a big 12-quart Crisper, humidity control baffle that doubles as handy shelf. Dependable Polarsphere mechanism has Mono-Mount suspension for extra-quiet operation. See table below for full specifications.



See your Kelvinator dealer for 11 and 8.6 cu. ft. refrigerator models (not illustrated)



## USE THIS HANDY TABLE TO SELECT YOUR KELVINATOR REFRIGERATOR

FEATURES	MODELS					
	TM	MM	FM	VM	RL	RK
<b>CAPACITIES AND DIMENSIONS:</b>						
Shelf Area—Sq. ft. (NEMA)	17.8	18.4	18.4	18.1	16.7	15.0
Total Storage Volume—Cu. ft. (NEMA)	11.9	10.9	10.9	11.9	7.9	8.0
Net Cold-Mist Freshener Capacity—Cu. ft.	2.3	2.3				
Cold-Mist Freshener Shelf Area—Sq. ft.	4.2	4.2				
Across-the-Top Frozen Food Chest—Lbs.	80	50	50		50	40
Side-Mounted or Center Frozen Food Chest—Lbs.				42½		
Crisper Capacity—Quarts					24 (Polystyrene)	12 (Polystyrene)
Super Crisper Capacity—Quarts	40 (Aluminum)	40 (Aluminum)	40 (Aluminum)	40 (Aluminum)		
Handitray Capacity—Quarts	8 (Polystyrene)	8 (Polystyrene)	8 (Polystyrene)	8 (Polystyrene)		
Overall Dimensions—Width, inches	31¼	31¼	31¼	31¼	31¼	31¼
Depth, inches	28½	28½	28½	28½	28½	28½
Height, inches	64¼	60¼	60¼	60¼	58	58
<b>CABINET AND FINISH:</b>						
Fiberglas Insulation	x	x	x	x	x	x
Permalux Exterior Finish	x	x	x	x	x	x
Acid-Resistant Porcelain Enamel Interior Finish	x	x	x	x	x	x
Aluminum Interior Finish (Frozen Food Chest)	x					
Rustproof Aluminum Shelves	(Glass)	(Glass)	x	x	x	x
<b>OTHER FEATURES:</b>						
Automatic Floodlight	x	x	x	x	x	x
13-Position Temperature Control	x	x	x	x	x	x
Door Opening Trim (White Polystyrene)	x (lower)	x	x	x	x	x
Ice Trays	Four with tray and cube release levers built-in and with "rocker" action	Four with tray and cube release levers built-in and with "rocker" action	Four with tray and cube release levers built-in and with "rocker" action	Two single, one double width with built-in release lever and "rocker" action	Two single, one double width with built-in release lever and "rocker" action	Two single, one double width with built-in release lever and "rocker" action
Meat Tray	Polystyrene tray with aluminum cover	Polystyrene tray with aluminum cover. Front area of baffle used for meat storage	Polystyrene tray with aluminum cover. Front area of baffle used for meat storage	Polystyrene tray and cover	Polystyrene tray with aluminum cover. Front area of baffle used for meat storage	Polystyrene tray with aluminum cover. Front area of baffle used for meat storage
Humidity Control Baffle	No baffle necessary	Ports in baffle may be open or covered by slide	Ports in baffle may be open or covered by slide		Ports in baffle may be open or covered by slide	Ports in baffle may be open or covered by hinged cover
Frozen Food Chest Door	Separate compartment	Molded white polystyrene (used also as a rearranging shelf)	Molded white polystyrene (used also as a rearranging shelf)	Molded white polystyrene	Molded white polystyrene (used also as a rearranging shelf)	Two of molded white polystyrene
Special Storage Features			Adjustable full width shelf and removable half shelf	Adjustable full width shelf and removable half shelf		Removable half shelf. Baffle used as rearranging shelf
<b>POLARSHERE SEALED UNIT</b>	x	x	x	x	x	x



# *New Way* TO BETTER LIVING... THE KELVINATOR HOME FREEZER



MODEL FL-6

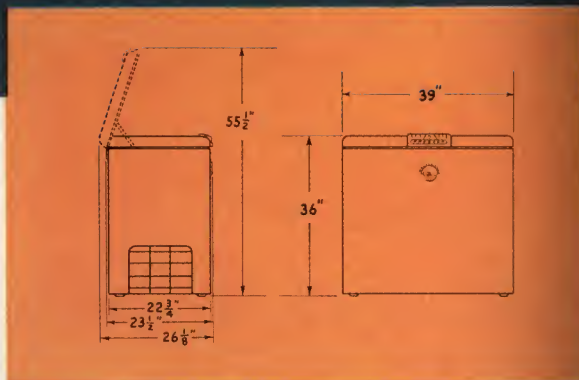
**OTHER FEATURES:** Two sturdy wire baskets for convenient food storage. Accurate thermometer shows cabinet temperatures at a glance. Temperature control for easy adjustment to meet special freezing requirements. Efficient Fiberglas insulation keeps cold in, heat out. Lid Support has spring action, counter-balancing effect for easy raising and lowering. Lid lift has push-button, positive action catch and built-in lock. Safety signal available as accessory. **OVERALL DIMENSIONS:** width, 39"; depth, 23½"; height, 36¼".

**YOUR KELVINATOR DEALER** is well-qualified to give you any information you may need to help you determine the Kelvinator appliances which will best meet your requirements. You will find him able and willing to give you the benefit of his extensive experience in making the most practical installations of electric refrigerators, ranges and home freezers. The Kelvinator appliances he sells are backed by 35 years of leadership in building finer equipment for American kitchens. Let him assist you in the selection of appliances for your new home.

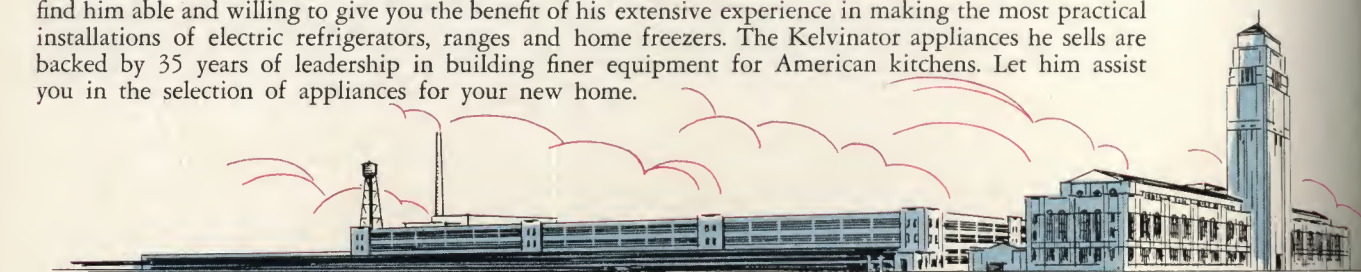
Generous frozen food capacity in a compact cabinet designed specifically for kitchen use. Finished in gleaming white, durable Permalux that harmonizes perfectly with your other equipment. Convenient table-top height.

Unique design enables Kelvinator to provide full 6 cu. ft. of storage space in a cabinet of much smaller exterior dimensions than other freezers of same capacity. Holds 210 lbs. of assorted frozen foods. All food is within 7" of a refrigerated surface. Refrigerating coils in all four walls and in bottom of freezing section assure dependable, uniform, safe temperatures for freezing and long-term storage. Fast-freezes 25 lbs. at one time.

Chest-type, top-opening design assures greater efficiency and economy of operation. Temperature-guarded by Kelvinator's Polarsphere, which is backed by 5-Year Protection Plan.



In addition to the compact "6," there are Kelvinator Freezers of 9, 12 and 20 cu. ft. capacity to meet all freezing and storage needs. Regardless of size, every Kelvinator Home Freezer can be easily moved through average-width household doorway.





## *Kelvinator*

DIVISION OF NASH-KELVINATOR CORP. • DETROIT 32, MICHIGAN

(Product specifications as described or illustrated are subject to change without notice)

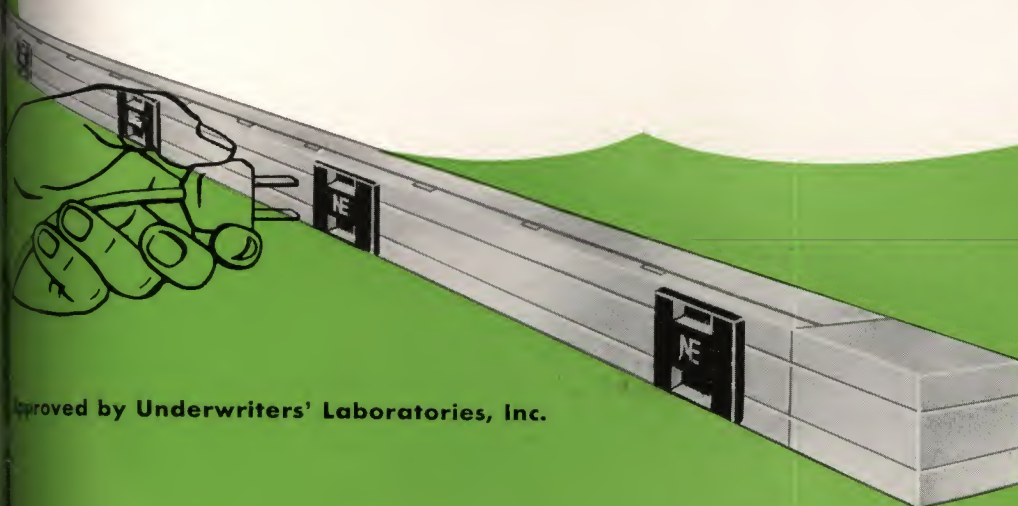




*When You Build  
Place First Things First*



**NOW**  
**IS THE TIME**  
**TO BE SURE YOU GET**  
*Complete* **ELECTRICAL CONVENIENCE**





# Enjoy the Plus Features of "Plug-in" Strip

—and your electrical appliances and equipment will be more efficient



## "Plug-in" Strip assures convenient electrical living.

"Plug-in" Strip provides an electrical outlet for every need in modern living, plus freedom to "plug-in" new equipment you may buy in years to come—wherever you want to use it!

When you are in the planning stage, it is almost impossible to decide just where furniture, and lamps, and radio, and clocks will all be placed. Maybe the beds will look better against that other wall. That would mean the dressing table and its lamps must be moved.

Will there be an electrical outlet handy in that other spot?

Surely you do not want to chain your furnishings to limited placement in the new house. With "Plug-in" Strip, there'll never be chains of that type on your electrical living.

Be sure you have full comfort and convenience of electrical living—an outlet where you want it, and when you want it—have your architect specify and electrical contractor install "Plug-in" Strip.

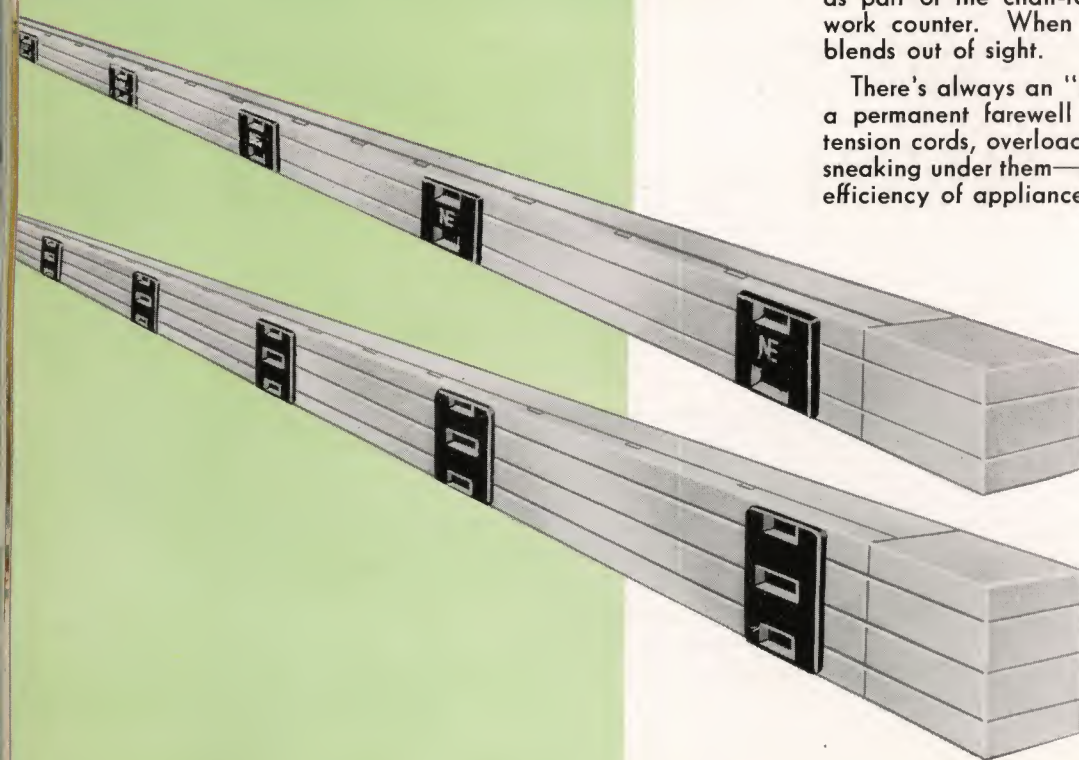
"Plug-in" Strip is a steel wiring channel installed by your electrical contractor. There's an inconspicuous outlet at either 6 in. or 18 in. intervals along the face of the strip.

"Plug-in" Strip mounts as a flush trim on the baseboard, or as part of the chair-rail molding, or just above the kitchen work counter. When painted to match wall or molding it blends out of sight.

There's always an "open" outlet with "Plug-in" Strip—and a permanent farewell to unsightly dangerous, drooping extension cords, overloaded outlets and lumpy rugs due to wires sneaking under them—all of which tends to decrease operating efficiency of appliances and equipment.

Type CF-2 with constant service receptacles every 6" or 18" for all room areas or kitchen or work bench locations.

Type CF-3—Switch-controlled. Here is a complete electrical, streamlined, baseboard with receptacles every 18". The outstanding feature of CF-3 Type is that every receptacle offers two services . . . Automatic-doorway, switch-controlled for general lighting, or constant service for radios, clock and other lamps or appliances, that you wish individually controlled.





# Electrical Convenience *Plus...* In Any Room of Your Home!



## In Your Living room—

In the living room—the heart of your home—"Plug-in" Strip is a real necessity. Your lamps turn on and off from a touch of the wall switch, but radio, television or clock only go "off" when you turn them off at the appliance. Best of all, you can group furniture and lamps for any and every combination you might desire—there'll always be an electrical outlet close at hand.

## In Your Kitchen—



"Plug-in" Strip above the kitchen counter provides real convenience and saves steps too, since there'll always be an individual outlet ready to "plug-in" the mixer, coffeemaker, toaster, griddle, or radio. Eliminates the clusters of long appliance cords on your work areas.

## In Your Bedroom



There will be a lot of ELECTRICAL living in your bedrooms—with "Plug-in" Strip you can safely and quickly "plug-in" the bed lamps, upstairs radio, alarm clock, dressing table lamps, sun lamp, and the electric sheet or blanket—no more trailing extension cords! A s-p-r-e-a-d of convenience outlets is a "must" in bedrooms.



# When you build Place First Things FIRST!



THE WIRING SYSTEM IS TRULY THE HEART OF THE HOME

Insist on these  
Three REQUIREMENTS



- ① At Least a 60 Ampere Service Entrance.
- ② Plenty of Circuit Feeders (*Don't Skimp Here*).
- ③ "Plug-in" Strip for Lifetime Convenience of places to plug-in.

**Initially "Plug-in" Strip Will Cost No More Than  
a Respectable Number of Ordinary Duplex Outlets**

Over the years  
"PLUG-IN" STRIP will



- ① Cost Less.
- ② Assure Convenient Electric Living.
- ③ Eliminate Dangerous and Unsightly Extension Cords.

"WHAT WAS THAT ARCHITECT'S NAME ??G!"



**National Electric Products Corp.**  
Pittsburgh 37, Pa.





# Planning and Decorating

*the most important side  
of a room*







## How to **PLAN** the most important side of a room

Planning your home begins with basic structural parts of the house that will be with you always—those parts that you will live with as long as you live in your home.

Your basic interior elements must be versatile because they are permanent. They must be chosen with great care for they must be able to blend into any color scheme—now or later. They must be adaptable to any decor and gracefully complement the motif of your furnishings.

Flooring, a primary element of home planning and decoration, is the most important basic. It is a primary structural part of the home—the side of the

room that you walk on, the side of the room that must withstand continuous weight and heavy traffic for the life of the house—with a minimum degree of wear and deterioration.

Your floor is that all-important side of the room that you and your guests look at more than the walls, ceilings—and even furniture. Everyone automatically looks where he steps—it is an instinctive habit as well as a safety measure.

*As a result, your floor must blend the walls and furnishings into an harmonious atmosphere for comfortable living.*



Unlike walls and ceilings—and even furniture and accessories—floors maintain their original appearance for the life of the home, even though they may be covered from time to time with carpeting or throw rugs. Floors are not subject to dramatic changes in color, nor do they change their form to fit a new decor. Therefore, your floor must be versatile and adaptable to all color and style changes. As an integral part of your decorative plan, your floor must lend a distinctive atmosphere of elegance to your room.





## How to **CHOOSE** your flooring

There are three important factors to consider when planning and decorating the most important side of your room. The primary requisite is *durability*. You are interested not only in the length of service your flooring material will give you, but equally important, the kind of service and how this service meets your particular household needs.

You will want to know more about insulating value, cleaning, refinishing, sanitary considerations, fading, resistance to marring or scratching and many items that are often overlooked and occasion costly alterations later.



The next factor is *economy*. This, too, is important because you should not pay more than you have to in order to obtain the flooring that will do the best job for you in your home. You should know about initial cost, about refinishing, and about cost of up-keep. Another question you will want answered is, will the initial cost be the final cost—or will you have to pay for costly repair and replacement.

Then you must consider *style adaptability*, and the appearance of your floors because flooring is the most important single element of all home decorating. Check carefully and find out whether or not your floors will go with the color schemes of your rooms—even if you redecorate your home in a few years. Will your flooring complement your present decor and will it blend into the new motif you are planning for the future?



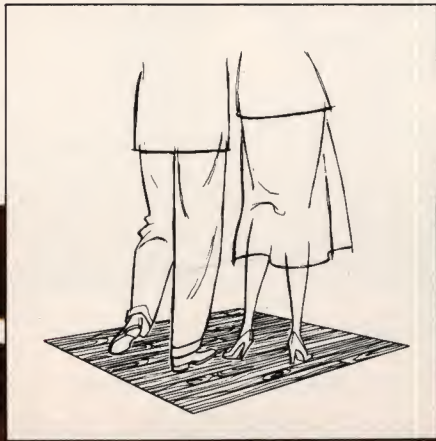
Let us consider each of these important factors by itself. In order to evaluate the durability of a floor, we will take a floor-level view of a floor's problems.

Then we will take a careful look at the dollar-level view to study the floor's problems of economy.

How important the floor is in the decorative plans of your home will be seen in the eye-level view of a floor's problems.



# A Floor-Level View *of a floor's problems*



Your floor is the hardest working side of a room. Every second of the day and night it is faced with problems of wear and tear, of rain and slush, bleaching sunlight, extreme changes in temperature and humidity, dirt, dust and germs, spilled liquids and scratches due to falling objects. With all of these your floor must be able to maintain its original beauty and structural strength.



The trend in smart home decorating is to give full play to beautiful, exposed oak floors which provide welcome contrast to dark furniture woods. This charming room features slate grey London lounge chairs set off by elegant emerald green satin drapes and contrasting white, glass curtains. Moss green walls provide a harmonious background to the graceful Queen Anne piano.





*These, in brief, are a floor's problems as seen from a floor-level view*

**A**—Dust, dirt, grime, rain and snow blow in through open windows all day long, combining with more smudge deposited on the floor by a never-ending procession of footsteps. The harsh abrasives are thus ground into the floor's surfaces.

and scorching sunlight, streaming into your room to fade your floors as well as the brilliant colors of your furniture's upholstery.

**C**—Your floor must be able to take carpets and throw rugs and still be able to resume its original appearance when the covering is removed from the floor.






**D**—Because children play on the floor, the problem of dust, dirt and germs becomes important. Your floor must provide a sanitary, smooth, hard surface—one that is easy to clean.

**E**—Your walking and standing comfort is increased by the ability of your floor to absorb shock.



*To solve these floor-level problems, your floor must be **DURABLE** and **EASY TO MAINTAIN***

Check durable oak flooring on the scoreboard for proof of its amazing resistance to these floor-level problems.

FLOOR-LEVEL PROBLEM	SOLUTION	OAK FLOORING SCORE
 Abrasive action of dust, dirt, traffic.	Durable material able to withstand abuse and heavy wear with minimum degree of deterioration.	<b>EXCELLENT</b>
 Rain, snow and mud tracked in on shoes and blown in windows.	A material which will retain a maximum of its original appearance with minimum maintenance.	<b>GOOD</b>
 Fading, due to sunlight and heat	Light-resistant material which retains its original color	<b>EXCELLENT</b>
 Loss of room heat in winter; keeping room cool in summer.	Flooring material having high insulating value.	<b>EXCELLENT</b>
 Mars and scratches due to moving of furniture; depression due to heavy weight of furniture.	Material having structural strength and resilience to bear heavy, continuous weight.	<b>GOOD</b>

**Oak flooring** is the only floor material that will give you a superior, lifetime service of carefree use.





## A Dollar-Level View *of a floor's problems*

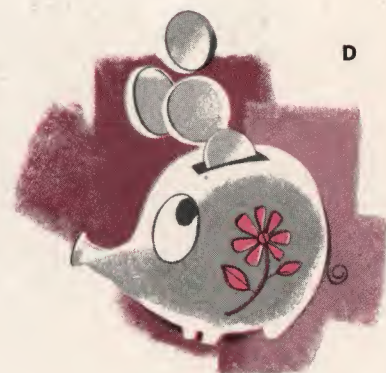


The early American motif of this relaxing fireplace setting is created by the outstanding yellow toile de Jooy print chairs against smooth, chocolate brown walls. Simple, spool-leg pine furniture provides bases for French, Chinese and English accessories —originally provided by early New England sea captains.

Your pocketbook has a lot to say in the choice of flooring material. It is interested not only in the initial cost but also in the day-to-day upkeep. Keeping the room's most used surface clean is the

housewife's first consideration in economical maintenance. Economical upkeep combined with low initial cost and good resale value are also important factors in a floor's economy problems.





*Here are the major problems to be considered from the Dollar-Level View of a floor's problems*

**A**—Flooring should be kept clean and glistening with a moderate amount of simple care. Nothing more than a few daily strokes with a dust mop and an occasional waxing should be required to keep your floor in its original gleaming condition.

**B**—You should be able to refinish your floor—even after years of severe wear and sheer neglect—by






the easy, inexpensive means of mechanical sanding.

**C**—Your initial installation cost should be your final cost, because flooring should be expected to last the life of the house.

**D**—No floor cost should be involved because of a change in a room's color scheme or mode of decoration.

*Only an economical flooring material will provide satisfactory answers to your floor's Dollar-Level problems*

**Additional proof** of the value of long-lasting, easy-to-maintain oak flooring is furnished by the Dollar-Level View scoreboard.

DOLLAR-LEVEL PROBLEM	SOLUTION	OAK FLOORING SCORE
 High maintenance costs, special polishing machines for cleaning, expensive waxes and cleaners.	Flooring which needs minimum care, no special equipment or preparations.	EXCELLENT
 New covering to restore floor surface to its original beauty. Initial installation costs repeated when floor is worn out and neglected.	Floor surface which can be restored to its original beauty and strength by inexpensive finishing methods.	EXCELLENT
 Periodic reconditioning of floor; replacing damaged sections because of weight of furniture and wear due to heavy traffic.	Life-lasting, weight-resisting resilient flooring requiring a minimum of reconditioning.	EXCELLENT
 Expensive change of floor material to conform to new decor or color scheme.	Flooring which is adaptable to every mode of furnishing and color scheme.	EXCELLENT
 A material that will increase the resale value of the house.	Flooring adding to a home's resale value.	EXCELLENT

**Only oak flooring** will give you a lifetime of economical, durable floors—adaptable to every color scheme and decor.



# An Eye-Level View—



Soft yellow, delft blue and russet are the key colors of this provincial living room. The mixing of French provincial furniture and American provincial accessories—such as the pot-belly stove lamp and cobbler's bench—lends an air of cozy informality. Complementary colors in the wallpaper and furniture are held together by the black which highlights the hooked rug, the Hitchcock rocker and the Audubon print frame.



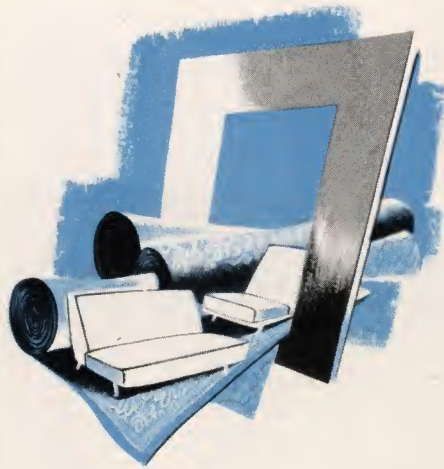
Flooring is the most important element in decorating the interior of your home. All basic decorating is centered around the flooring. You will change the colors of your walls; your tastes in furniture might change from period to modern, but your floors remain unchanged—ready to blend into any motif, any color change. All eyes look to your floor, *first*. It must, therefore, serve as a style co-ordinator for the rest of your room's furnishings.



# of a floor's problems



Flooring, if properly and carefully chosen, will last the life of the house. It must remain with you after tastes in furnishings and colors change.



Your flooring must set off your rugs and carpeting. They must lend a beautiful frame to your carpeting and also provide a smooth, firm carpet base.



Your floor will outlast every color scheme and mode of decoration. Flooring must therefore be adaptable to *every* decor and *any* color scheme.



Your flooring must have a charm all its own. It must be able to beautify a room when exposed and complement the room when serving as a background to rugs.



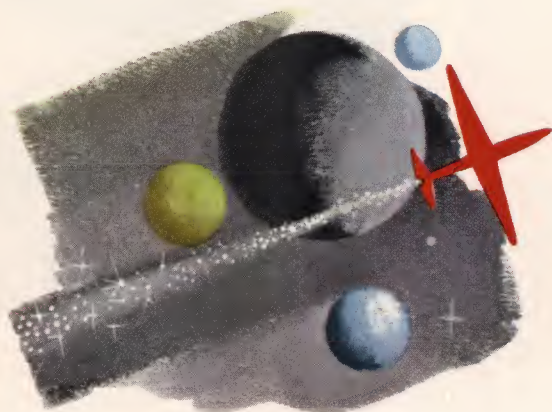


# An Eye-Level View

*of oak flooring with striking modern colors*



The strong, severe lines of functional modern furniture call for the brilliant, accented grain of oak flooring. Only oak blends with brilliant modern colors and dark and light wood finishes bringing both of them into their proper color perspective.



Vivid Chinese red in a knobby-texture fabric keys the American functional modern furniture to the warm thistle walls. Classic Grecian lamps and Chinese pottery add charm to the decor, which surrounds itself with the sharp, highlighting chartreuse, used in the drapes, the Grecian column lamp and the love seat.





# An Eye-Level View

*of oak floors amidst the charm of Regency*



Decorators agree that there is no better way to accent fine mahogany and fine woodwork than to set off furniture with oak flooring. The neutral color variations of grained oak pleasingly frame your colorful throw rugs and carpets.



A Regency room is a room that spells comfort and fine living. Eggshell blue is the key color of this living room, a color which makes each piece of the fine mahogany furniture stand out by itself. The same blue is again picked up in the floral armchair and the interesting kidney-shaped love seat. By way of brilliant contrast is the striking color of the huge barrel chair, the piece that gives this room its individual character.





# An Eye-Level View

of oak flooring in an elegant hall of Chinese decor



Nothing lends more distinctiveness to a formal hallway than the clean lines and interesting graining of beautiful oak floors. Oak blends the key colors of your hall with the complementing color scheme of your living room.



Jet-black antique shutters with gold rococo knobs give formal elegance to the Chinese decor of this entrance hall which looks into the formal 18th century living room. The grape red of the rug is reflected in the softer tones of the wall. The soft blue Chippendale wing chair picks up the greys of the oriental wallpaper as the studded nail trim of the Sheraton pull-up chair accents the gold on the shutter's knobs.





# An Eye-Level View

*of a Victorian motif and glowing oak floors*



Here is an authentic Victorian motif, right down to the oak-framed oval floral pattern rug. This is an example of the correctness of oak flooring as a major part of the room's decor. Note the reflections of the soft color tones across the floor.



Victorian roses in dusty pink set the motif of this living room. The antique love seat's flowing lines are accented by the opalescent chimney lamps and milk glass table and wall pieces. The rose theme is further carried out in the colorful oval rug and in the upholstery on the love seat and finger-mould chair. The Sleepy Hollow chair and full, ruffled turquoise curtains give this charming room an elegance all its own.



# An Eye-Level View

of a striking oak floor in a contemporary living room






The yellow faille silk draperies against the blue walls of this living-dining room combination set off its interesting arrangement. The Duncan Phyfe sofa sets the style for the drop-leaf table and ladder-back chairs.



This gracious American living room is as typical as your own home. The charm and coziness of this room is carried to every piece of furniture by the natural glowing rays of grain in the oak floor, a hallmark of fine American homes for more than 200 years.

Check oak flooring's beauty rating on the style-adaptability chart to learn why experts in interior decoration specify oak—the floor that lends itself to every type of decoration.

EYE-LEVEL PROBLEM	SOLUTION	OAK FLOORING SCORE
 Replacing flooring to conform to new wall color and decoration.	Flooring that is adaptable to all color schemes.	EXCELLENT
 Provide a base for carpeting which can also be used alone.	Flooring that provides a smooth, hard base for coverings and is not affected by the covering selected.	EXCELLENT
 New flooring needed because of change in decor and furnishings.	Flooring material that complements every decor and motif in home interior decorating.	EXCELLENT

Oak's eye-pleasing quality enhances the beauty of every room. Striking natural wood grains form fascinating designs which create an atmosphere of gracious living amidst beautiful furnishings.





## FACTS

### About Oak Flooring That Every Homemaker Should Know

To suit the individual tastes of every homemaker, to blend with any over-all effect, and to satisfy the demands of architectural style and design, oak flooring is manufactured in three different types, classified as strip, plank and parquet.

### Grades and Types of Oak Flooring

Both red and white oak are processed into flooring. There is little difference between the two groups, except for a reddish brown cast which appears after the finish is applied to red oak.

Oak flooring is graded according to specifications set up with the United States Bureau of Standards. The finest oak available is graded "Clear". Following this superior classification are the "Select", "No. 1 Common", and "No. 2 Common" grades.

### Characteristics of Oak Flooring

The beauty of oak is due to two important characteristics of its cellular construction. First, it is one of the few heavy hardwoods that are ring-porous. This produces the attractive figure in plain-sawed oak. Second, it is marked by strips of cells extending radially in the tree. Known as wood rays, these cells appear as large, flaky figures when the wood is quarter-sawed.

### Styles of Oak Flooring

**STRIP FLOORING**—The most extensively used type of oak flooring, strip is chosen because of its individuality of character and beauty of grain. No two hardwood floors are exactly alike because of the interesting patterns which are formed by the natural irregularities and variations in color. The narrow strips are of varying length, giving additional distinctiveness to the floor.

**PLANK FLOORING**—One of the oldest types of oak floors, plank flooring, dates back to the handcraft era. The demand for plank flooring has increased in recent years due to the desire for an atmosphere of rugged informality. Plank derives much of its charm from its rough effects and interesting irregularities, which, in colonial days, were unintentional. Today, however, these defects are simulated by machines. Keys and pegs give an additional air of authenticity to plank floors.

**PARQUET FLOORING**—Pattern floors, also known as parquet and design floors, appeared as early as the 14th Century and today, as then, they represent the most formal and elaborate oak flooring available. Today's parquetry assumes geometric patterns such as squares, rectangles and herringbone. Hundreds of designs are available, many featuring variations of species or shades of the same species.

For technical information of any kind, write to the National Oak Flooring Manufacturers' Association, Sterick Building, Memphis 3, Tennessee.





# OAK FLOORING

*a symbol of gracious living*

## FOR EVERYONE

Beautiful, rich-grained oak flooring is the hallmark of fine homes throughout the world. Century-old European castles and palaces proudly show their magnificent oak floors—still intact after hundreds of years of constant use.

And right here in America, many colonial homes, more than 200 years old, have their original oak floors as serviceable and attractive as the day they were installed.

Yet, today, the rigid functional specifications and flexible decorating requirements of modern homes—from bungalows to large estates—are

still best met by time-tested, beautiful and durable oak floors.

For centuries, the timeless charm, the rich grain and flowing color of oak have made it the most extensively used flooring material in homes. Today, more than eighty per cent of American homes of all sizes have oak floors.

For the home you are building or buying specify oak, the only floor that is unsurpassed in durability, economy and style adaptability, the three vital factors used to determine your choice of flooring material.

Home Service Bureau  
**NATIONAL OAK FLOORING MANUFACTURERS' ASSOCIATION**  
Sterick Building • Memphis 3, Tennessee





HOME AIR CONDITIONING . . . *by*

*Luxaire*



## GETTING THE MOST FROM YOUR HEATING DOLLARS WITH *Luxaire* HEATING EQUIPMENT

No part of the home equipment contributes so much to the health, comfort and enjoyment of your family as the heating system.

Whether you want Gas, Oil or Coal—Gravity, Forced Air or a panel heating installation, remember that complete heating satisfaction depends on the care with which you select your heating equipment—so don't compromise with quality in your choice.

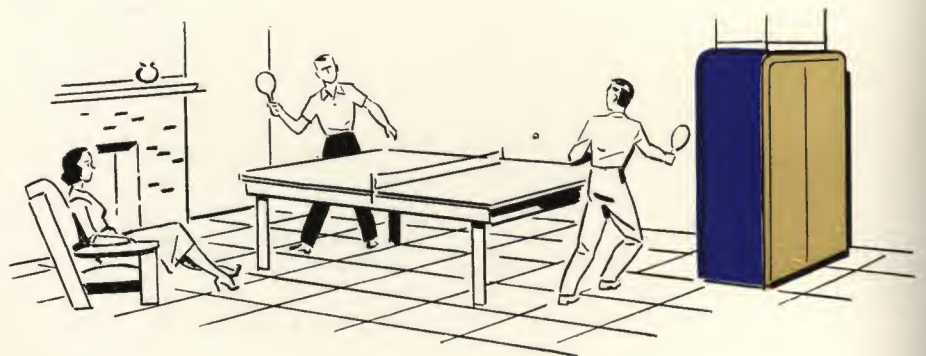
Luxaire heating equipment is designed to bring you the utmost in comfort, convenience and pleasant living.

Luxaire heating equipment is completely modern in design and construction.

Luxaire heating equipment is economical to own and to operate.

These are the reasons why Luxaire heating equipment is taking "top-billing" with home owners and heating contractors—everywhere. These are the reasons why you should install a Luxaire in your home for lasting satisfaction.

So—before you complete your plans, read about the Luxaire units on the following pages. Then—check with your heating contractor. With the help of this book, you and he can collaborate in the selection of the proper heating equipment for your home. Or, mail us the coupon on the back cover.



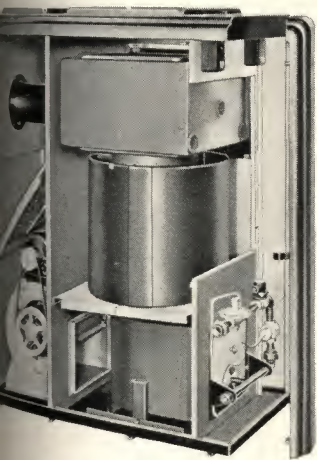


# Luxaire

## GAS FIRED AIR CONDITIONING UNIT

Enjoy the convenience of automatic, ideal heating by simply setting your room thermostat to your "comfort-zone." Then let this Luxaire Gas Fired Air Conditioning Unit "take-over" for the rest of the winter.

This beautiful piece of equipment is a Luxaire creation of a modern heating plant—and the beauty is not merely "skin deep." Just take a look inside the cabinet walls. See the long-lived, efficient, heat-producing elements—you have your choice of either steel or cast iron. Also notice the large air handling equipment that silently sends a gentle flow of soft, warmed, humidified air into your home. Note particularly the filters which eliminate dirt and dust from the circulating air.



Interior view of unit with steel heating element.

Luxaire Gas Fired units are equipped with Luxaire's silently operating multi-port, ribbon-type gas burners for burning natural, manufactured and all types of mixed gases. Everything is enclosed inside the easy-to-keep-clean baked enamel cabinet. Luxaire units with a B.T.U. input range of 70,000 to 200,000 are built in sizes for practically any heating installation. They bear the American Gas Association's seal of approval.

## Luxaire Gas Fired Utility Air Conditioning Unit

Now—if you're planning a basementless home, you can have all the benefits and satisfaction of automatic, economical gas-fired heating with this superbly designed, attractive, Luxaire Utility air conditioning unit.

This smart looking unit can be placed in a utility room, or in an alcove or a closet.

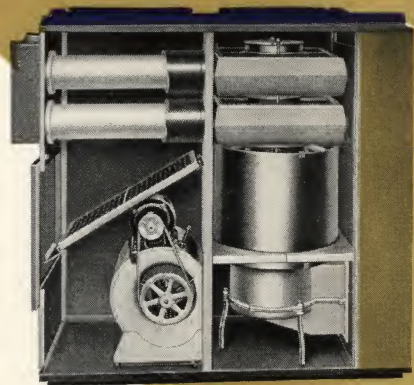
Where space is valuable and limited in your new basementless home, no better choice can be made than the Luxaire space saving Utility Air Conditioning Unit.

Luxaire utility units have all the quality-construction and automatic operating features of the basement air conditioning unit described above. And for convenience in installation, the return air may enter either side or the bottom of the unit.

Luxaire utility air conditioning units are built with both steel heating elements and with cast iron heating elements. They have a range of sizes from 65,000 to 125,000 B.T.U. input and are approved by the American Gas Association.



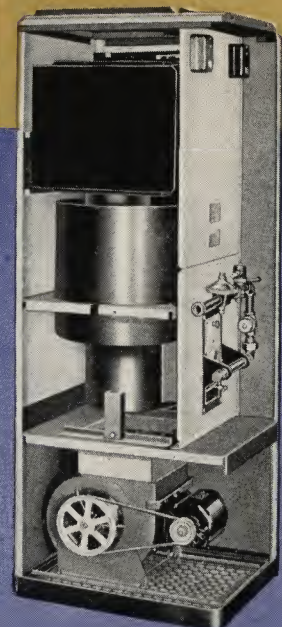
Front view of Utility Air Conditioning Unit with Filters installed at side of the cabinet.



Interior view of unit with Cast Iron heating element.



The attractive Air Conditioning Unit enhances any heating installation.



Interior view of unit with steel heating element. Shows controls and air handling equipment.



## *Luxaire* Gas Fired Gravity Furnace

Automatic, economical Gas-Fired heating for the small home, so inexpensive, so satisfactory, is "all yours" when you install a Luxaire Gas-Fired Gravity Furnace.

You'll be amazed at the low installation cost and unbelievably low operating cost. You'll be surprised at the cleanliness of gas heat—how much easier it is to keep your home clean—how walls, drapes, curtains—in fact everything—stay cleaner—longer.

Luxaire Gas-Fired Gravity Furnaces are completely automatic—just light the pilot—set the room thermostat, and your winter heating chores are over.

Luxaire Gas-Fired Gravity Furnaces are built with either a steel heating element or a cast iron heating element, whichever you prefer, and also have the silently operating, Luxaire ribbon-type gas burner. Capacities range from 50,000 to 125,000 B.T.U. input. Approved by the American Gas Association.

## *Luxaire* Oil Fired Gravity Furnace

If you prefer oil heating in your home, but economy in installation and economy in operation are vital factors in your budget, here's a Luxaire Oil-Fired Gravity Furnace, with Pressure Vaporizing Oil Burner, that has been designed to provide automatic heating at moderate expense.

Here's a good looking furnace with a



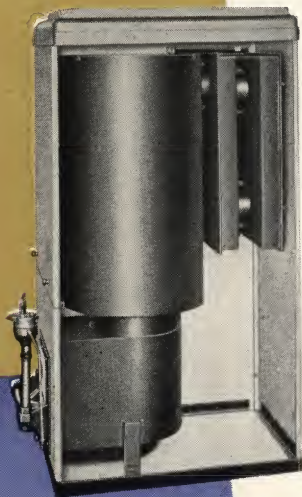
Gas Fired Gravity Furnace



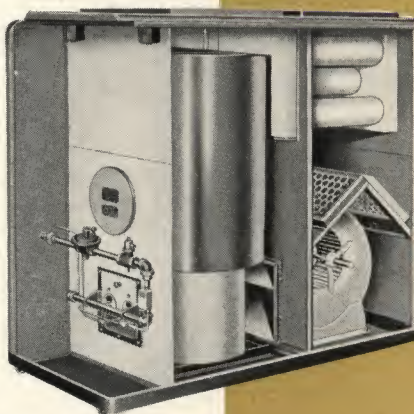
Oil Fired Gravity Furnace

ruggedly constructed steel heating element that is welded leak-proof so no fumes can get into your home—a unit that will give you complete, automatic heating satisfaction. Its compact design and construction means that little basement space is needed for installation.

The Pressure Vaporizing Oil Burner is listed by Underwriters' Laboratories Inc. and is approved by Underwriters to burn No. 3 Fuel Oil as well as the lighter grades.



Interior view of Gravity Furnace with multi-port, ribbon-type gas burner.



Interior view of Gas Fired Air Conditioning Unit.



Interior view of Gravity Furnace with Pressure Vaporizing Oil Burner.



# *Luxaire* OIL-FIRED AIR CONDITIONING UNIT WITH GUN TYPE OIL BURNER

This oil-fired unit is highly efficient in providing speedy, economical delivery of heat on those cold, zero days, keeping the warmed, healthful air in constant circulation. On hot summer days and nights the blower can be operated to keep the air in continuous circulation.

As with all Luxaire-engineered units, you can be assured of economical performance, long-lived operation and a minimum of maintenance and servicing costs.

Home cleaning and home maintenance are also reduced to a minimum, because Luxaire heating elements are made leak-proof and gas-tight by the new method of submerged arc welding. As in all Luxaire Air Conditioning Units, filters remove dust, pollen and impurities from the circulating air, and the Automatic Humidifier adds the moisture so necessary for healthfulness.

## THE OIL BURNER

This new, revolutionary type Luxaire Oil Burner has many distinctive features, vastly important to economical heating, long life and trouble-free service.

This burner will provide efficient combustion with the heaviest types of domestic heating oils, which are generally lower in cost. It is so carefully aligned and delicately balanced that mechanical wear is reduced to a minimum. No burner designed to date is as easy to service as the Luxaire. Once installed, the air tube part of the burner need never be removed. The burner chassis, which contains all the moving parts, is attached to the front of the furnace in such a way that loosening 4 nuts, in the matter of a few minutes, releases the burner chassis for inspection or servicing.

## VIRTUALLY ALL *Luxaire* UNITS ARE DESIGN- ED for EITHER GAS or OIL FIRING

Most Luxaire Air Conditioning Units have been so ingeniously engineered that they are perfectly suitable for either gas or oil burning—and are equally efficient with either fuel.

If you are undecided now which fuel you prefer to burn, you can have your Luxaire system installed now—air conditioning unit, ducts, registers and grilles—and finally before the arrival of cold weather make the decision whether to add the Luxaire Gas Burner or the Luxaire Oil burner to your system.

Or in later years, if you decide to change from Oil firing to Gas firing, or from Gas to Oil, you simply remove the one Luxaire burner and replace it with the other Luxaire, without sacrificing efficiency and at comparatively small cost.

Luxaire Gas Fired Units carry the Approval Seal of the American Gas Association. Luxaire Oil Burners carry the listing of Underwriter's Laboratories Inc.



Luxaire Oil-fired Gun type Air Conditioning Units are also available in the Utility model as illustrated below.







Front View of  
Vaporizing  
Oil Fired  
Basement Air  
Conditioning  
Unit.

## *Luxaire* VAPORIZING OIL FIRED AIR CONDITIONING UNIT

If the heating requirements of your new home are within the heating capacity of the Luxaire Vaporizing Oil Fired Air Conditioning Unit, you can enjoy carefree, automatic heating at a surprisingly low first cost and fuel cost.

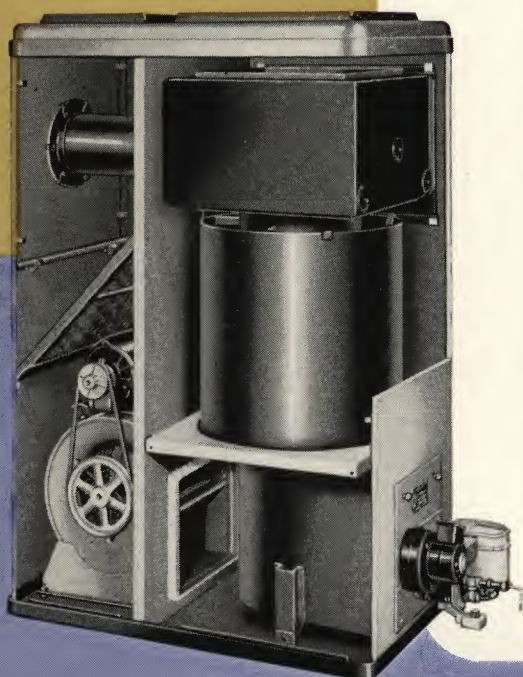
Inside of the attractive enamel cabinet is a heating element of heavy steel, electrically welded to form a leak proof unit, rugged and long lived. This heating element extracts all the heat possible from the oil burned.

### BURNS No. 3 FUEL OIL

The Luxaire Pressure Vaporizing Oil Burner has been approved by Underwriter's Laboratories to burn the less expensive No. 3 Fuel Oil, as well as the lighter grades, saving you fuel dollars.

The burner is factory assembled and factory adjusted. It is readily installed in the unit and it is difficult to install it incorrectly. Like all Luxaire burners it is highly efficient. For inspection or servicing, the burner is speedily removed by loosening 4 screws and disconnecting the oil line—without disturbing or dismantling the furnace or cabinet.

Interior view of Vaporizing  
Oil Fired Basement Air  
Conditioning Unit.



## *Luxaire* Vaporizing Oil Fired Utility Air Conditioning Unit

If in your new home without a basement the heating plant will be placed in a utility room or closet, this Luxaire Utility Air Conditioning Unit will fit into your plans.

While it is compact so that it will require little of your valuable floor space, it will provide carefree, automatic heating, clean, filtered air, refreshing humidified air, and healthful ventilation.

The Utility unit has the same engineering features that are embodied in the basement air conditioning unit. You dust its smooth cabinet as you would any piece of furniture.

Front view of Vaporizing  
Oil Fired Utility Air Con-  
ditioning Unit.





## THE *Luxaire* COUNTERFLOW UNIT

The Luxaire Counterflow Unit has been designed for basementless homes, where it is desired to circulate the heated air in the concrete floor slab, or below it, so that some of the heat from the pipes or ducts will pass by radiation directly to the floor. Instead of the customary location of the air handling equipment in the bottom of the cabinet, the blower-fan is placed at the top, above the heating element, and the air is forced downward in a counterflow action.

Luxaire Counterflow units give you 3 choices of heating installations: You can have floor panel heating with the heat pipes imbedded in the concrete floor; or you can have these same imbedded pipes connected to wall or floor registers for warm air heating; or you can have the heat pipes installed in the crawl space under the floor and connected to wall or floor registers, thereby providing a circulation of the air throughout the home.

Luxaire Counterflow is a well-built, compactly constructed unit. The steel, baked enamel cabinet houses the rugged, welded steel heating element, that extracts heat so economically from the fuel being burned. Available either as a Gas unit or an Oil unit.





THE C. A. OLSEN MANUFACTURING COMPANY  
ELYRIA, OHIO

Please have your nearest Luxaire dealer arrange to provide me with

(    ) additional information.

(    ) a quotation on a Luxaire installation in my home.

Name .....

Address .....

City .....

State .....

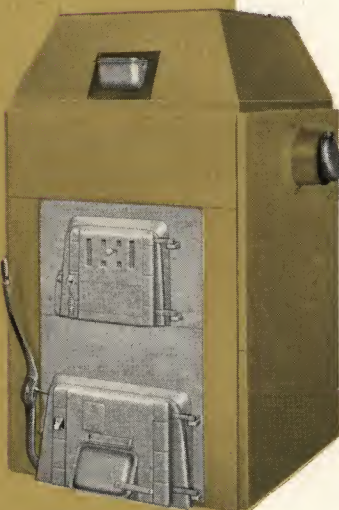


Steel Air Conditioning Unit.  
Designed for Coal—Easily  
Converted to Burn Oil and  
Gas.

## *Luxaire* "THREE-WAY" Steel Air Conditioning Unit

This popular air conditioning unit will provide thoroughly satisfactory heating with any of the three fuels—coal, gas or oil. Its large area of heat-radiating surface and the long travel of the hot gases, before they pass into the flue, make it surprisingly economical with any fuel. With it, you can convert at any time from one type of fuel to another without the expense of purchasing a new heating plant.

Besides heating, this "Three-Way" air conditioning provides air circulation, humidifies the air, and with its filters, eliminates dirt, dust and pollen.



Cast iron gravity furnace

## *Luxaire* Coal Fired Gravity Furnaces—Cast Iron Heating Element

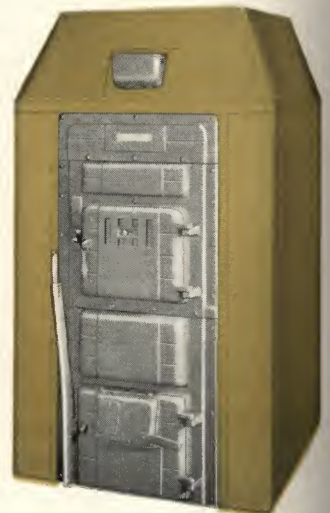
This efficient, economical, warm air furnace, burning coal, has been outstanding in the heating market for over 50 years.

Equipped with a large, one-piece radiator, a durable two-piece firepot, duplex roller-bearing grate, and a roomy dust-tight ashpit, this furnace has only four double-sealed joints inside the casing—a feature which minimizes the danger of dirt and fumes escaping into the warm air chamber.

### Steel Heating Element

An efficient coal-fired furnace that will give long, trouble-free years of heating satisfaction—yet is surprisingly low in cost.

Combustion chamber and radiator are welded, gas-tight. Heavy, duplex dumping grates are standard equipment. Firepot is brick lined. Both Steel and Cast Iron Furnaces are available with the attractive square enameled casings as illustrated, and also with conventional round casings.



Steel gravity furnace

THE C. A. OLSEN MANUFACTURING COMPANY

*Luxaire*



ELYRIA, OHIO

HEATING & AIR CONDITIONING UNITS



MAKING YOUR HOME MORE ATTRACTIVE WITH

"PITTSBURGH"

Glass









WHATEVER THE STYLE OF YOUR HOME

A LITTLE EXTRA

# Glass

MEANS A LOT OF EXTRA CHARM



*Courtesy Architectural Forum—Edwin J. Ivey, Architect; Elizabeth Ayer, Associate*



*Courtesy American Home Magazine—F. J. McCarthy, Designer*

IN building a new home, in remodeling, in furnishing, and in decorating, Glass offers unlimited possibilities for making your home more attractive.

Pittsburgh Glass comes in a variety of types and forms that will lend themselves to many applications—that give a home a touch of smartness, style, and charm. Pittsburgh Glass is gay and glamorous, yet permanent and completely practical.

The difference in beauty and livability that a little extra glass makes in a house is tremendous. You will see in this booklet a few of the many ways in which glass can be used effectively and inexpensively to brighten your home and contribute to gracious living.



*Courtesy Architectural Forum—Photographed by Hedrich-Blessing; Burnham Hoyt, Architect.*











IT'S EASY to wake up your living room. Hang a mantel mirror\* above the fireplace and reflect the beauty of your home. Color, furnishings, and you—all are reflected in a lovely Plate Glass mirror like this.



THE VIEW becomes part of the room that boasts a large picture window. Daylight enters—makes the room cheery and bright. Who wouldn't like to sit in front of this window and enjoy the countryside!

# Glass

**MAKES LIVING ROOMS  
LIGHTER AND LOVELIER . . .**

*\*These products are available at your favorite department or furniture store.*

5

*and below courtesy American Home Magazine*

THERE'S NO BETTER WAY to make a room appear larger than by using mirrors. The structural Plate Glass mirrors used here make the room seem twice as wide—and twice as attractive.

ABOVE THE SOFA—a lovely, unframed mirror\* to enhance the beauty of your room, to set-off the sofa, to make a charming spot that is the focal point of the room. Mirrors can be used in scores of places to add beauty to your home.







**MANTEL MIRRORS\*** do work magic in any house—large or small. They give a room an appearance of elegance that you are sure to like.



*John Tavis, Designer*

**IT'S ALL DONE WITH MIRRORS.** A long, built-in mirror panel like this is new and attractive, especially when combined with overhanging bookshelves.



*Courtesy House and Garden Magazine—Samuel Marx, Architect; Noel Flint and C. W. Schonne, Associates*

**HOW TO** give a living room charm. Outdoor beauty is brought indoors by this Plate Glass picture window without cross sash.

**GAIETY AND GLAMOUR** in exhilarating doses brighten the room with mirror-backed Plate Glass shelves\*! A perfect setting for objets d'art and plants.



**YOU'D BE SURPRISED** how much glamour a couple of semi-partitions of PC Glass Blocks can add to the living room entrance, or to the arch between rooms. New, different, and attractive.



*Courtesy Architectural Form—W. W. F.*

**WINDOWS** like these are now more practical than ever because Twindow—the Double-glazed Insulating Unit. Twindow is 2 of glass with an air space between. It keeps heat in, cold out, to comfort by eliminating downdrafts of cold air near glass.





**NOTE THIS** novel mirror installation. The fireplace is surrounded by structural mirrors that run to the ceiling. And all the color and light in the room are reflected, creating spaciousness and charm as though by magic.

**THE FINAL TOUCH** to a living room is often a mirror. This unframed circular mirror\* is "at home" in almost any spot—over mantel, sofa, desk, or table. Extremely simple to hang. Inexpensive, too.



nal Forum—Stonorov & Bacon, Architects; Photograph by C. V. D. Hubbard

**IN YOUR CORNER** with a view. Corner windows give you light, a two-way view, cross ventilation, and extra good from both the outside and inside of the house.



**IN THIS ROOM**, Plate Glass mirrors surround the fireplace opening—and surmount the Carrara Structural Glass mantel top. This is flanked by panels of light-transmitting PC Glass Blocks.



nal Forum—A. Muirgrave Hyde, Architect.

**FLOODS OF LIGHT** — and a view — come through these windows. Partitioned casement windows are especially recommended for the homemaker who likes something different in window design.

\*These products are available at your favorite department or furniture store.





*Courtesy American Home Magazine—Muir & Bernhardt, Architects*

**MORE AND MORE GLASS** is being used in modern home design. Nature comes right into a room that has windows as generously proportioned as these.



**WINDOW IDEA:** Plate Glass window shelves\* hold favorite plants and knick-knacks. Such a window lights your stairway, adds to home beauty.



*Courtesy House Beautiful—Photographed by Emile Dauterion*

**HERE'S ANOTHER** attractive mirror\* installation above a mantel. You'll like the dignity and luxuriousness that mirrors can give a room. They make a room appear more spacious, too.



*Courtesy Architectural Forum—Aaron Colish, Architect*

**HOW TO MAKE** a room seem twice its size: use generous-size, built-in panels of Plate Glass mirrors. And you'll love the sparkle and life they add.





**(Above)** SEE FOR YOURSELF how bright this unframed mantel mirror\* makes a room. All the daylight that enters, and all the color and gaiety of the room are reflected.

**(Below)** COMPLIMENTS GALORE would come to the owner of this home. The structural mirror adds glamour—gives the room added character and a smart, "expensive look".



**THIS LIVING ROOM** takes on added size and liveliness thanks to the large built-in mirrors which flatter its fireplace. They make the room seem brighter, more cheerful, and more fashionable. Mirrors are available made from Plate Glass of various colors.



**PRACTICAL?** Sure—and this doorway surround of PC Glass Blocks is attractive, too. It admits plenty of light—dresses up the entrance and is as good-looking from the outside as it is from the inside of the house.



*Edward A. Stone, Architect*

**UMMM**—who could resist wanting to sit in this delightful corner! It's sure to be a favorite spot with the entire family.



**A SMART FRAMED MIRROR\*** like this, placed over a table or desk, is the last word in charm, as well as usefulness. It's inexpensive — and definitely an eye-catcher.



## LIVING ROOMS . . . . .

**IF YOUR ROOM FEELS CROWDED**, push back the walls with an oblong Plate Glass mirror\*. See how it opens up new vistas, gives an impression of style and elegance. Hung up and down, this mirror could be a full-length framed door mirror for bedroom or bath.

**YOUR FIREPLACE** becomes a beauty spot when you grace it with a lovely framed mantel mirror\* to catch the life and movement in the room. Handy for casual primping, too.

**NO NEED TO WORRY** about spilled ink, glass rings, or cigarette burns if your desks and tables are protected by Plate Glass tops\*. They're easy to clean—and very attractive.

**ONE OF THE SMARTEST** decorating ideas is a grouping of unframed mirrors\* like that shown at lower right. Warm colorful reflections make the room brighter and lighter. Try grouping mirrors like these over your mantel or sofa. The effect is sure to be pleasing.

**GOOD TASTE** is evident in the over-the-mantel arrangement of framed Plate Glass mirror\*, wall candelabra, and silhouettes shown below. It's just the right touch to dress up the room.



*\*These products are available at your favorite department or furniture store.*





**PUT GLASS TOPS\*** on your furniture, and see how much brighter and cheerier your rooms look. And crystal-clear Plate Glass tops protect fine finishes from harm, so let Sister paint pictures to her heart's content.



**BRIGHTEN YOUR HALL** with a smart mirror\* that says "welcome" to your friends. It's a kind way to put them at ease by showing them that they're looking their best. Helps you to check *your* appearance, too, before you leave the house. Framed and unframed styles available.



*Courtesy Architectural Forum—Geddes and Kelly, Architects*

**YOUR PLANTS** couldn't help but thrive in this sunny solarium. Walls of glass make it a room that just seems made for happiness.

# Glass

## MAKES A FRIENDLIER HOME

Glass—that's the secret of appeal and personality in countless homes today. The possibilities of glass in design and decoration are almost limitless. It can be used in many ways to give your home more color and warmth—to make your home more attractive and practical. A little extra glass is often "the added touch that means so much" in making your house a home.

**A STAIRWAY OPENING** glazed with PC Glass Blocks brings in lots of light for the stairs, preserves privacy, shuts out unwanted views.

**PC GLASS BLOCKS** help dress up your home. A few blocks around your front door, for example, give it added attraction, day or night.









# Glass

ADDS CHEER TO DINING ROOMS



IT'S FUN to eat in a room that has an exciting personality—provided by an attractive framed mirror\* over the buffet. This is an especially effective decorating trick to make small dining rooms look larger.

•

HERE'S A DINING ROOM that combines utility and beauty. A "bull's-eye" mirror\* over the sideboard, and Plate Glass table tops\* give new sparkle to the room. Handsome, protective Plate Glass table tops show off your dishes and silver, too.

•

ONE OF THE MOST EFFECTIVE touches of glass is a circular, unframed mirror\* like this, hung in an appropriate spot—over buffet, server, or occasional table. A mirrored table top\* helps to increase the effect of smartness and good taste.



\*These products are available at your favorite department or furniture store.

Photograph at left Courtesy House Beautiful Magazine by Emelie Danielson at "The Manor House"





Courtesy Architectural Forum—George Kosmak, Architect



Courtesy Architectural Forum—Kenneth Day, Architect, Photograph by C. V. D. Hubbard

**WHAT A CHARMING SPOT** for having morning coffee. The day should certainly be more pleasant after breakfasting in front of this lovely window which invites the sun to add cheer to the room, and which affords a satisfying view of the scenery outside.

**ALL DAY LONG** light streams into this room and makes it a cheery place to dine. It's like eating outdoors, where food is always at its best. For large glass areas like this, Twindow Double-glazed Insulating Units are ideal. They keep out drafts—cut down heating costs.

**ANYONE** would appreciate this modern "dining room with a view". The large window builds the scenery into the house. At night, curtains can be drawn to shut out vision and to make the room more formal. Note, too, the graceful table with its glistening Plate Glass top\*.

**COMPANY'S COMING**, and your buffet looks its nicest with an unframed mirror\* above it to reflect light and color. It's especially effective at night when flanked by lighted candles. The mirror reflections are soft and interesting. And they give the whole room a cheerful personality.







Structural Forum—W. W. Wurster, Architect

{Above} **THERE'S PLENTY OF LIGHT** in this dining room. Large panels of Polished Plate Glass invite the sunshine. The circular, framed mirror\* on the wall is a lovely light-catcher.



{Above Right} **TASTY FOOD** in a dining room decorated in good taste: You can be sure that mirrors are in good taste—especially a framed Plate Glass mirror\* hung over your buffet.

{Right} **DINING BECOMES** a real pleasure in a room that is cheery and gay. Doors of Plate Glass open into this room—give it sophistication that guests admire. Note the Plate Glass table top\*.



{Below} **CHARM ENTERS** the dining room when you put a mirrored top\* on your table. It preserves the fine finish—reduces furniture care. You'll like the glamour it adds, too.









A PRACTICAL IDEA for any kitchen: low windows over the work surfaces that allow Mother to keep an eye on the children outdoors, and make the kitchen bright and cheery.

*Architectural Forum—Michael Goodman, Architect*



WOULDN'T YOU ENJOY your breakfasts and Sunday night suppers in a breakfast nook like this? The attractive window frames the view and admits floods of daylight.

*Courtesy Architectural Forum—G. W. Stoddard, Architect*



# Glass

**MAKES BEAUTIFUL  
BATHROOMS  
AND PRACTICAL  
KITCHENS**



IT'S A PLEASURE to work in a kitchen that has sanitary, lovely Carrara Glass walls like this one. You can select almost any color scheme you prefer—and the kitchen stays new and beautiful indefinitely.



*Metel Cooper Bagelow & E. Charles Werner*

IS NO REASON why your kitchen shouldn't be bright and still have privacy. A panel of translucent PC Glass blocks—these blocks—and Carrara walls—are easy to keep clean.



*Maxwell A. Norcross, Architect*

IF YOU WANT a smart, easy-to-clean bathroom, combine beautiful, sanitary Carrara Glass walls with a large built-in mirror like this — copper-backed to protect it against the effects of moisture.



HOW WOULD YOU LIKE a striking bathroom like this one done in Carrara Glass? You can choose color combinations from Forest Green, Tranquil Green, Ivory, Wine, Orange, Rembrandt Blue, Beige, Gray, White or Black Carrara.





*{Above}* KITCHEN COMPANION. An unframed mirror on the kitchen door for quick check-ups before greeting guests.

*{Below}* THIS KITCHEN owes much of its charm to Carrara Glass walls. (Carrara can be applied over new or old walls.)



GLASS is the secret of beauty in this bathroom. Carrara walls are brilliant and reflective. An etched Plate Glass shower door makes the bath even more practical, as it does away with the use of a shower curtain.



*Courtesy Architectural Forum - Photographed by Samuel Marx, Architect, Noel Flint & C. W. Shaw*

LET YOUR DISHES—or those preserves of which you are so proud—help to decorate your kitchen. Cupboard doors of glass show off your prettiest kitchen wares. They add sparkle, too, and are easy to clean.



HERE'S THE ANSWER to the problem of not enough light in the shower enclosure. Build it of handsome PC Glass Blocks. They're translucent but not transparent. Easy to keep clean and bright. Unaffected by moisture.





AND MORE attention is being given to bathrooms in modern design. They should be colorful and practical, as well as sanitary. Walls and wainscots of Carrara Glass are not only beautiful but are also a great help to the home maker, for they are easy to clean and always look spic-and-span.



GLASS weaves a spell of loveliness in this charming room. PC Glass Blocks flank the crystal-clear Plate Glass mirror\*. Carrara Glass walls of Ivory, Forest Green, and White create a harmony in glass that any home-loving lady would be proud of.



PRE-BUILT tub recess of Carrara Structural Glass is ship-ready for immediate installation. It's available in a variety of colors to fit in with your bathroom color scheme. 24 inch heights. Very inexpensive, but very practical.



HERE'S ANOTHER SUGGESTION for a kitchen mirror to help the lady of the house look her best. Surround the mirror with gay ruffled curtains like this—and the effect is very appealing indeed.

*\*These products are available at your favorite department or furniture store.*



# Glass

**MAKES BRIGHTER BEDROOMS**

*Maxwell A. Norcross, Architect*

*\*These products are available at your favorite department or furniture store.*







NO HOME IS COMPLETE without at least one full-length door mirror\*. Most homes need several. It shows you how you look from head to toe, and adds greatly to the charm of the room's appearance.



DRESS UP your vanity. Top it with a mirrored or transparent Plate Glass top\* that laughs at spilled cosmetics. Then hang a smart, unframed mirror\* on the wall. It will be a delightful addition to your bedroom.



GLASS furniture tops\* supply a happy combination of protection and good looks. They safeguard finishes—do away with the danger of cigarette burns, stains, and scratches. And their bright, shiny surfaces add a pleasing decorative note to a room.



FROM HEAD TO TOE you'll look just so. A full-length Plate Glass door mirror\* reports truthfully on your appearance. Mirror should cover completely the recessed panels in the door. Most doors require a mirror at least 5½ feet tall.



MAN should have a mirror\* of his own over his chest of drawers. It's handy—and he'll love you for thoughtfulness. He'll appreciate a Plate Glass mirror on the chest, too. Then he won't have to worry about marring the furniture with cigarette burns, stains.



*Designed by Mahel Cooper Bigelow & E. Charles Werner*

LOOKING YOUR BEST is easy when you have a mirrored dressing room to help you. Mirrors give clear, honest reflections and create the illusion of generous room size. Even the dressing table in this lovely room is faced with mirrors.





**SOMETHING NEW**—and very useful. A closet shelf of transparent Plate Glass\*. You can see what's on the shelf without climbing on a chair.



**YOU'LL HAVE** an adorable vanity when you deck it out with a Plate Glass top\* and then put a mirror\* over it. The added touch of beauty is the corner decorations of artificial flowers.



**SYMMETRICAL ARRANGEMENT** of great charm. Two lovely Plate Glass mirrors brighten room corners with warm reflections, while twin tables with Plate Glass tops\* flank the bed. The total effect is one of graciousness and charm.



**SHE'LL BE A GROWN-UP LADY** by and by—and a sweetly poised one you can be sure, if she's had a full-length door mirror\* all her life to keep her interested in how she looks.

**TRUE MIRROR LUXURY** is the three-way full-length mirror. Stocking seams straight? Dress fit well? You can be sure you'll look just right—from every angle. Plan one for your home where there are two doors rather close together. Put a mirror on each, and one on the wall between.







House & Garden—George Fred Keck, Architect



**{Above}** OH, WHAT A BEAUTIFUL MORNING! A large Plate Glass window like this allows floods of daylight to enter your room, brings the outdoors indoors. Because of its insulating qualities, Twindow is recommended for such areas.

**{Above right}** GIVE HIM A MIRROR\* for his dresser. And put a mirror\* over your vanity for you. Incidentally, mirrors such as these—or lovely mirrored or regular Plate Glass furniture tops\*—make ideal gifts.

**{Below}** RECIPE FOR GLAMOUR — structural mirrors to make your bedroom look larger and impressively lovely. They afford you a place to check up on *your* appearance conveniently, too.

**{Right}** PICTURE WINDOWS give rooms the benefit of the beauty of the landscape. For such applications, Twindow Double-glazed Insulating Unit is ideal. It permits undistorted vision—eliminates downdrafts of cold air.



Courtesy Architectural Forum—J. E. Dinwiddie, Architect: A. H. Hull & P. E. Joseph, Associates.

Products are available at your favorite department or furniture store.



Courtesy Architectural Forum—Gruen, Krummack and Ayer, Designers



# TWINDOW...

## PITTSBURGH'S NEW WINDOW WITH BUILT-IN INSULATION



**TWINDOW**, the window with built-in insulation, consists of 2 or more panes of glass with hermetically sealed air space between, and a stainless steel frame enclosing the entire unit.

► Twindow is the newest thing in insulating windows. It consists of 2 or more panes of Pittsburgh Glass with an insulating layer of air hermetically sealed between them. When made with two panes of glass, Twindow has nearly twice the insulating efficiency of ordinary windows . . . even more when additional panes are used. (See chart at right)

The entire Twindow assembly is enclosed in a stainless steel channel, or frame, which protects the seal and the edges of the glass, and simplifies insulation. Twindow is installed just like a single pane of glass.

Twindow reduces heating costs. It decreases the load on air conditioning equipment. It virtually prevents condensation, minimizes downdrafts at windows. It helps greatly in maintaining desired temperature and humidity levels in any kind of building. It eliminates the necessity for storm sash. And it adds to comfort and health all year 'round.

Since Twindow affords clear, undistorted vision and has high insulating properties at the same time, it makes picture windows and other large window areas—so important in modern home design—more practical than ever before.

### Insulating value of TWINDOW... compared to single glass

Type Glazing	Glass Thickness	Air Space Thickness	"U" Value	Savings in Heat Transfer Over Similar Area Single Glazed with Same Thickness Glass*
SINGLE SINGLE	1/8"		1.14	
	1/4"		1.12	
DOUBLE (2 Pieces Glass) (1 Air space)	1/8"	1/4"	.63	45%
	1/4"	1/4"	.61	46%
	1/8"	1/2"	.57	50%
	1/4"	1/2"	.55	51%
TRIPLE (3 Pieces Glass) (2 Air spaces)	1/8"	1/4"	.43	62%
	1/4"	1/4"	.42	63%
	1/8"	1/2"	.38	67%
	1/4"	1/2"	.37	67%

\*Savings apply to opening entirely filled with glass.

"U" Value is the overall coefficient of heat transmission. This is the amount of heat expressed in B.t.u.'s which will pass through one square foot of the window area per hour for each degree Fahrenheit temperature difference between the air on the inside and the air on the outside.

The values shown in the table are based on conditions of 70°F. inside with 0 mph wind velocity, and 0°F. outside with 15 mph wind velocity. These are based on accepted values for surface and air space conductance and a thermal conductivity of glass (K) = 6.



MOST people, when they dream of the ideal home they hope to own someday, have a mental image of a lovely, picturesque white house with a picket fence. They visualize a certain number of rooms in the pretty white house, but usually do not picture any logical relationship between these rooms and the land surrounding the house.

Perhaps that is why the "Modern" house is the most misunderstood of all architectural styles. For a "Modern" house does not, certainly, promise the quaint, pretty exterior so often dreamed of. But it does afford advantages which usually far outweigh any lack of quaintness and sentimental prettiness.

It is important, therefore, that if you are interested in building or buying a house, you should understand clearly the design principles behind "Modern" styling before making a final decision on the kind of home you want to live in. The "Modern" house is not just an architect's dream, a silly innovation, an experimental attempt to establish a new architectural style just for the sake of being different. One of the nation's leading architects has said that if the designers of the beautiful Colonial homes which dot America had had available the kind of glass we have today, they might well have designed so-called "Modern" homes then.

The "Modern" house is designed, first of all, not for looks, but for *living*. For comfort, for greater freedom from drudgery, for pleasure and enjoyment, and for practical usefulness and economy. This does not mean that a "Modern" house need be ugly. Most of them are not. But the emphasis is placed on the inside of the house instead of the outside.

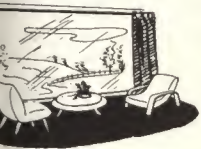
The thinking of the leading designers who advocate "Modern" homes, might be boiled down to three or four major principles:

### 1. Making the maximum use of light.



The "Modern" house should be so placed on the lot, and the living quarters faced in such a direction as to take best advantage of the sunlight. By proper design and location on the lot, sunlight can be made to reach the farthest corners of the rooms in winter, when solar heat and light are desirable, and sunlight can be excluded to any desired degree during the warm summer months. This is accomplished by giving the house the overhanging roof which is almost a trade-mark of "Modern" architecture. When the sun is low, as in winter, its rays penetrate the house under the roof overhang. When the sun is high, the overhang prevents the direct rays from penetrating much beyond the windows. "Modern" houses are never gloomy. Furthermore, because they control the light, they are easier on the eyes and result generally in better health for the occupants.

### 2. The land becomes a part of the house itself.



The architect designs the rooms with the definite objective of taking advantage of the surrounding shrubbery, gardens, lawns—of any attractive view which may present itself on your own property or in the distance. Thus, he

designs the outdoors into the house itself. To do so, large windows, large glass areas are utilized, and the old cramped, shut-in feeling, inevitable with opaque walls and small openings, is virtually eliminated. These large glass areas required in "Modern" styling are not excessive in cost, however, contrary to a common belief. The total cost of a glass wall, properly fitted with economical draw curtains, is no more than the ordinary outside wall of the same area including a small window, shade, and chintz draperies.

### 3. Economy of space.



Houses cost more to build today than they used to. You cannot afford to waste space, to have too many special rooms for special purposes. For example, in the "Modern" house, you can combine your living room and dining room, and have a better, more attractive room for both purposes. Instead of a separate dining room, in use not more than three hours out of the 24, you have a combined living-dining room which is in use all the time. Similarly, other rooms can be combined to provide multiple use of the same space.

### 4. Suited to changes in our mode of living.



On the premise that a large majority of American homes will be servantless, a home must be designed which will make the housework easier and quicker. So most "Modern" houses are designed to be all on one floor. Further, our homes are becoming more and more mechanized. Washing machines, ironers, dishwashers, dryers, electric stoves, automatically-controlled heat, mean that the housewife has more leisure to enjoy her home, more free time for *living*. Isn't it a good idea to build a house, therefore, where the utilities will be properly grouped for greatest efficiency, and the rest of the home is designed deliberately for enjoyment, including efficient use of the space around the house for play areas, service areas, terraces, etc.? Isn't it a good idea to have fewer corners, panels, angles inside the house—so it will be easier to clean? Isn't it a good idea to spend less money for bricks, stones and mortar, and more for the machines and equipment to make *living* easier? And isn't it a good idea to design a house which is deliberately arranged to provide the very best facilities for the fulfillment of a home's 3 major functions: activities, work and relaxation?

If you keep these basic reasons for "Modern" in mind, you will understand this increasingly popular style for what it is . . . a sincere and brilliantly successful attempt to design homes which are really suited to modern living conditions . . . and which not only provide the maximum efficiency and economy for home-loving American families, but which are more *fun* to live in.

The following pages show you two typical "Modern" homes . . . and explain briefly what they mean in terms of more pleasant living.





This house has the necessary facilities for all daily activities and they are arranged for easy upkeep and cheerful living.

The roof plan is essentially a square. Thus the outline of the building's shape is simple and interest is obtained by undercutting for the car shelter, piercing the roof for a court on the front, and extending it slightly for the outdoor play porch.

The large area facing the rear of the lot is divided to retain the inherent spaciousness, yet use the space for varied purposes.

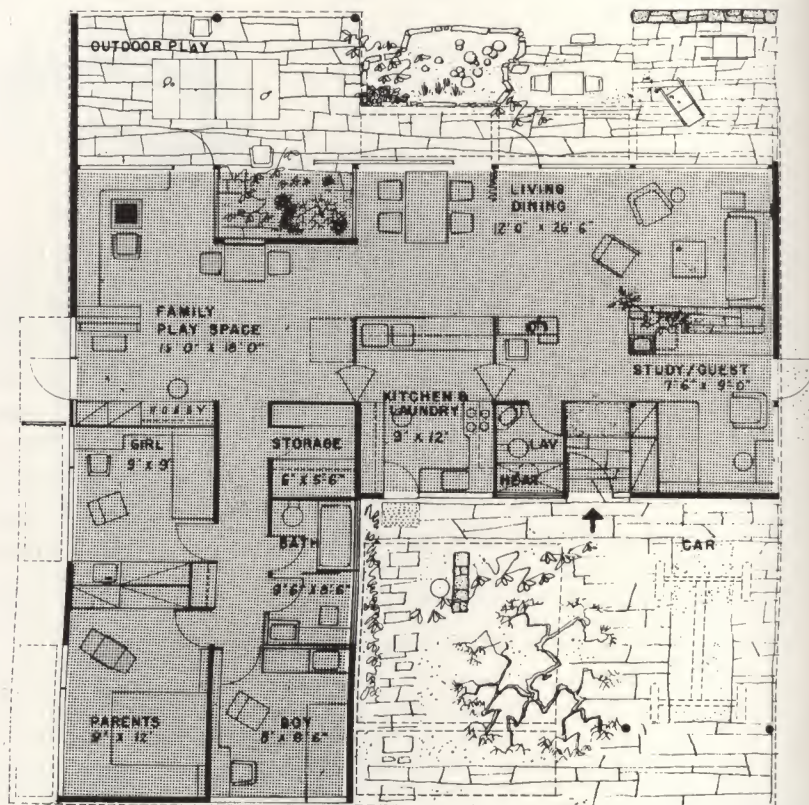
Fireplace and desk separate the study from the living room.

The kitchen has a double outlook—onto the attractive entrance court and through the dining area to the rear garden by means of an open-top counter wall.

A sliding glass arrangement screens the living room from cooking odors and kitchen noises.

Family play and hobby space is segregated by the kitchen projection and by the depressed wall for the planning area.

Architects: I. M. Pei and Frederick G. Roth



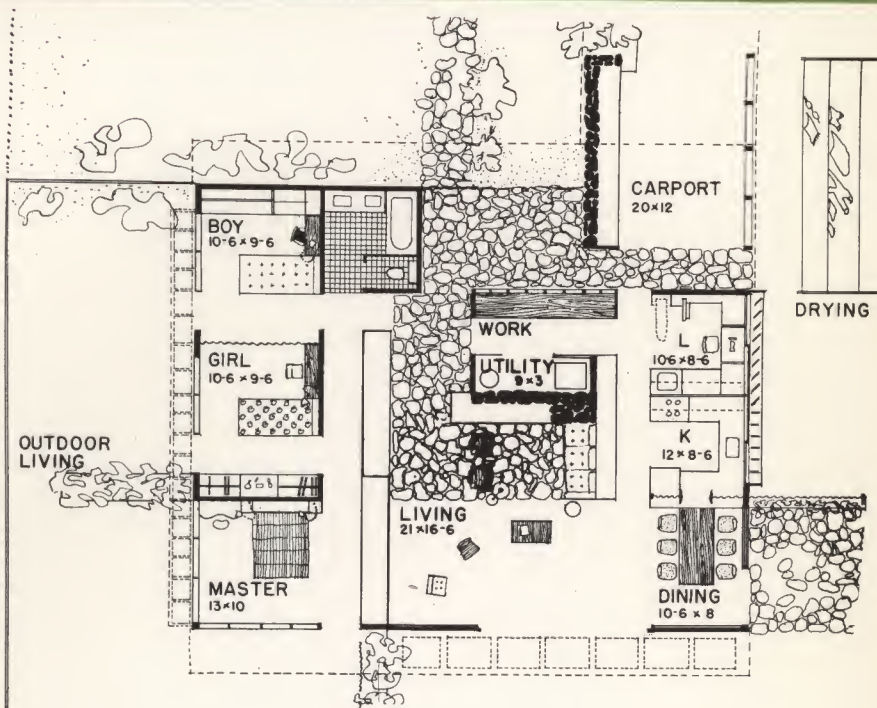


This house represents a simple, unaffected solution to the living problems of a typical 2-child family.

The house is notable for its domestic quality, and for the economical arrangement of the living, kitchen-utility, and sleeping areas.

The arrangement of the plot, and the relation of outdoor areas to separate indoor functions, is nicely worked out.

Architects: Leon Hyzen and Allman Fordyce.







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READING, PA.

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ROCKFORD, ILL.  
SAGINAW, MICH.  
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ST. LOUIS 10, MO.  
ST. PAUL 1, MINN.  
SALINA, KAN.  
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SAVANNAH, GA.  
SCRANTON 9, PA.  
SHREVEPORT 90, LA.  
SIOUX FALLS, S. DAK.  
SOUTH BEND 24, IND.  
SPRINGFIELD, ILL.  
SPRINGFIELD 5, MASS.  
SPRINGFIELD, MO.  
SPRINGFIELD, OHIO  
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TAMPA 1, FLA.  
TERRE HAUTE, IND.  
TIFFIN, OHIO  
TOLEDO 6, OHIO  
TOPEKA, KAN.  
TRENTON, N. J.  
TULSA 1, OKLA.  
UNIONTOWN, PA.  
UTICA 3, N. Y.  
WASHINGTON 2, D. C.  
WASHINGTON, PA.  
WICHITA 1, KAN.  
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# DON'T LET THEM RUIN **YOUR** NEW HOME



These three enemies of  
interior decoration . . .

## Grease Odors Steam

will launch their deadly attack  
on your new home the day you  
move in unless you stop them . . .

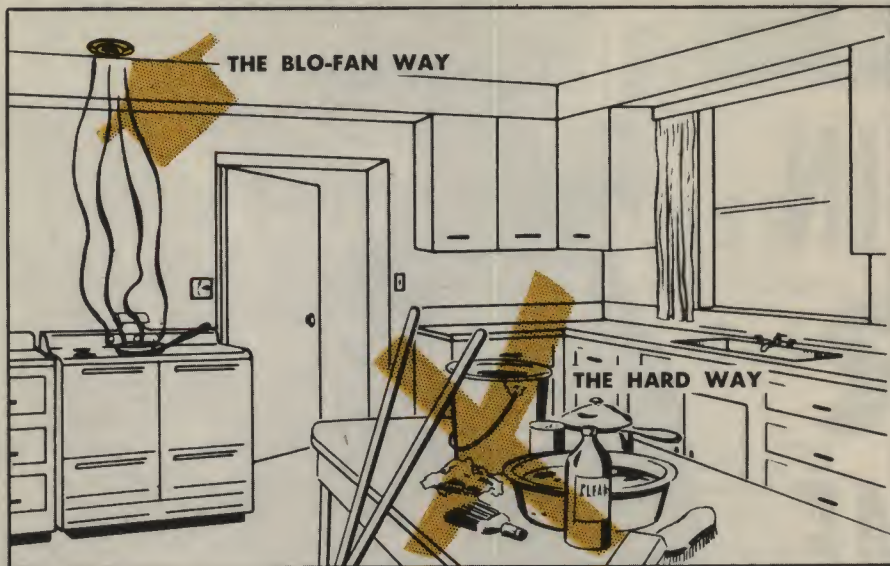
### STOP THEM WITH **Blo-Fan**

ELECTRIC "SPOT" VENTILATOR  
COMBINATION FAN AND BLOWER

PROUD OF YOUR NEW HOME BY KEEPING IT FRESH — THE FOLLOWING PAGES TELL YOU HOW



# You can keep that new home look...



## the hard way

Back-breaking work, housemaid's knee, calloused hands—these are the rewards for keeping that new home look the hard way! Steam, grease and odors laugh at your efforts to win your own personal war against them. Then, of course, there is the expense of soap, detergents, mops, cleaning compounds and brushes. Savings on these items alone will pay for your Blo-Fan in a short time—to say nothing of cleanliness, extra leisure and more comfort... Add hours of pleasure to your day with Blo-Fan—it costs so little... saves so much.

## the Blo-Fan way

A Blo-Fan "Spot" ventilator is installed directly over the point of air pollution, where a fan belongs. Thus, Blo-Fan helps nature whisk away steam, odors, and fumes as they rise, before they can spread. They don't have an opportunity to soil walls or ceiling.

Be sure your home ventilators are Blo-Fans—for twenty-five years Pryne and Company has been satisfying home owners by making superior ventilators designed particularly for domestic use—don't say "fan" say "Blo-Fan"... There is a difference!

## WHERE TO "SPOT" BLO-FAN

### BLO-FAN IN THE KITCHEN

Whisks away steam, greasy cooking vapors, and unpleasant odors... Keeps the housewife's workshop clean and comfortable.

### BLO-FAN IN THE BATH

Eliminates embarrassment, steam-streaked walls, and fogged mirrors... It takes more than plumbing to make a bathroom.

### BLO-FAN IN THE LAUNDRY

Assures springtime freshness in any weather—hot steam is expelled immediately... No need for a new hair-do after wash day chores are done.

### BLO-FAN IN THE GAME ROOM

Means no more "morning-after" mustiness—no irritating liquor fumes and tobacco smoke... When used as a spare bedroom, it's like sleeping outdoors.

## WHAT PEOPLE SAY...



DOCTOR—"Keeps contaminated air from spreading. It's good for your family's health, comfort and good humor."

ARCHITECT—"Installation directly over the point of air pollution is where a home ventilator belongs to move more air quickly, quietly, and more efficiently."

HOME ECONOMIST—"Cooking cabbage or frying fish and onions is a real problem unless you have a Blo-Fan."

HOUSEWIFE—"With my Blo-Fan running I scarcely know the range is on—and my kitchen walls and woodwork stay so clean and dry."

INTERIOR DECORATOR—"The ideal ventilator should have a minimum opening and an attractive grill—you know, like Blo-Fan."

Blo-Fan Meets All These Requirements—and then some!

Here's how  
*Blo-Fan*  
does it!.

Don't be satisfied  
half-way measures



\* Trade Mark Reg.

*Blo-Fan* save



# ONLY *Blo-Fan* HAS THIS PATENTED BLADE

**50%**

Fan—75% of the air moved by a breeze fan is thrown from the blade tips. The center is so weak that when the air meets resistance it is merely sucked back into the center and recirculated. A fan delivers volume, but lacks power.

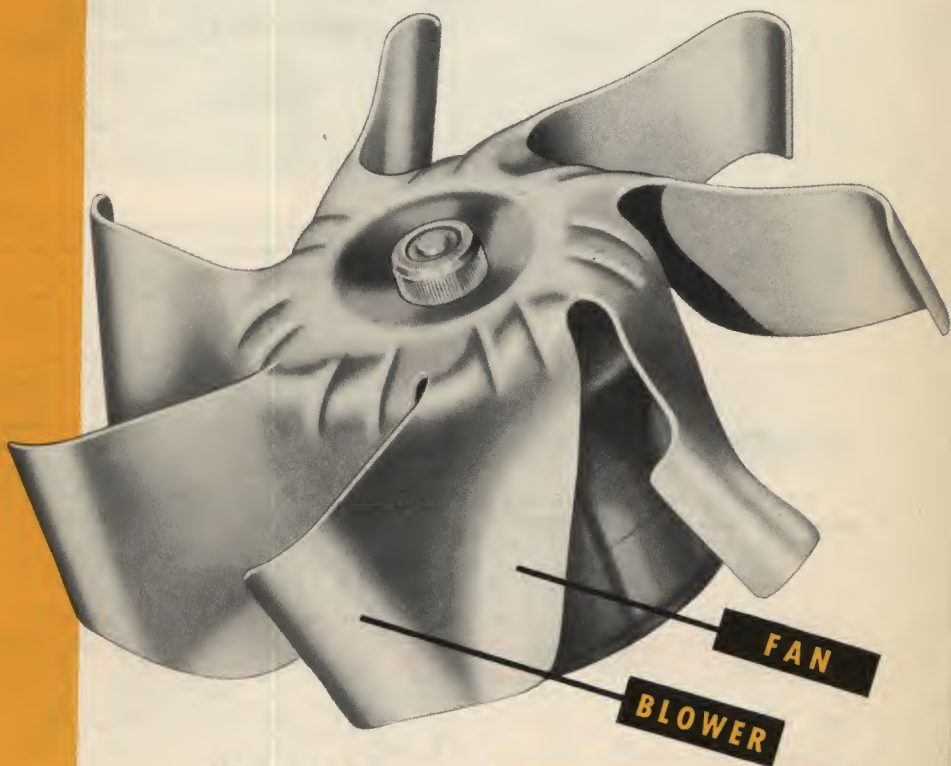
**50%**

A blower draws a smaller amount of air into the vortex, discharging it with greater power, thus overcoming resistance. A blower delivers air with power, but lacks volume.

**100%**

Blo-Fan combines the volume of a breeze fan with the power of a blower. The fan portion of the blade feeds air to the blower portion, thereby discharging more air faster.

The unusual design of this blade is the secret of Blo-Fan superiority. It's easy to see how the fan portion scoops up air and the blower portion expels it with great force. No other ventilator has this blade!



**What happens in a kitchen where the fan is not directly over the range:**

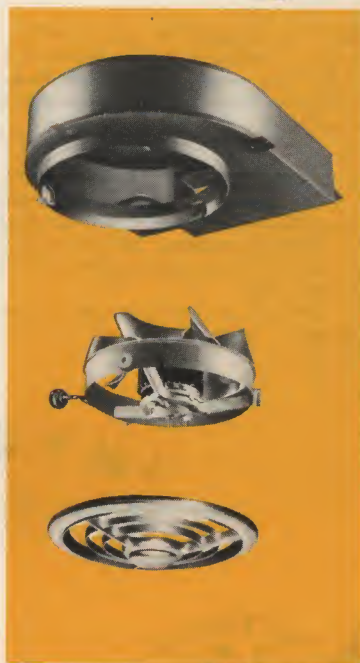
1. Greasy cooking steam and odors rise until they strike the ceiling and spread. 2. They must literally be dragged across the ceiling to the fan. 3. They are caught in cross drafts and blown into other rooms. 4. If a fan is placed in an outside wall and an adjoining window or door is left open, most of the discharged air will come directly from the door or window, leaving most of the room unaffected.

**What happens in a kitchen which has a Blo-Fan "Spot" Ventilator:**

1. Blo-Fan removes foul air where nature is trying to get it away from the source. 2. Blo-Fan acts as a "booster" to natural ventilation, helping nature remove polluted air. 3. Blo-Fan removes greasy cooking steam from striking the ceiling or settling on walls and furnishings. Practically eliminates spread of odors through the home. 4. Blo-Fan insures cleanliness—provides maximum protection to health and comfort.

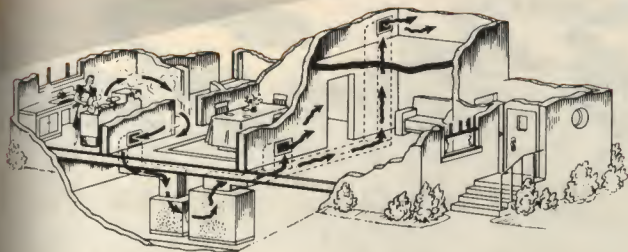
## BLO-FAN IS EASY TO CLEAN

Grill and motor assembly may be easily removed for cleaning by merely unscrewing the large center cap—no tools required. Motor is fully enclosed for long life, rubber-mounted for quietness, cooled by the air stream, and is radio-interference proof. Entire unit fits flush with the finished ceiling or wall; only the attractive grill is visible.



## WINTER OR SUMMER

If your home is heated by forced air, the ventilation problem in winter will be aggravated, because unwanted air that escapes from kitchen, bath, game room or laundry will be vigorously circulated through the entire house! Blo-Fan prevents this! If your home is air-conditioned, the summer ventilation problem will be even worse, for with doors and windows tightly sealed, there is no escape for polluted air. Blo-Fan skims it off!



**housework! Keeps that new home look...**



## WALL OR CEILING

It's all the same to

# Blo-Fan



The versatile Blo-Fan is designed for easy installation in the best spots—directly above the point of air pollution... It can be installed either in the ceiling or in the wall without sacrificing valuable cabinet space... However, ceiling installation is recommended because Blo-Fan is well above head height where it catches ALL the odors, steam, grease, and smoke. Requires only 3 1/2" behind plaster; uses standard 3 1/4" x 10" furnace duct. Ducts are discharged through the roof, the eaves, or outside wall.

If the Blo-Fan must be installed in a soffit (installation in the ceiling in front of the soffit is more directly above range burners), a special Blo-Fan Model, number 230, may be used in a restricted 12" area.

### BLO-FAN SPECIFICATION DATA

Model	CFM		Size	Speeds	Watts	With Elbow	With Wall Cap	With Eave Cap	With Light Add
	Actual Discharge	Approx. Free Air							
206 "Junior"	175	400	11 1/2 x 13 3/4 x 4 1/4	1	38	206-1	206-2	206-3	---
208 "Standard"	300	700	14 x 16 x 4 1/4	1	58	208-1	208-2	208-3	—408
210 "DeLuxe"	500	1200	14 x 16 x 4 1/4	9	136	210-1	210-2	210-3	—410

**DON'T BE MISLED!** The only CFM figures which mean anything are for ACTUAL discharge. So-called "Free Air" ratings of fans are often 2 or 3 times greater than actual discharge through the ventilator. The "Actual" figures above show what Blo-Fan takes out of the room through 10' of duct and a wall cap. (Merely divide the "Actual" figure into the cubic content of the room to ascertain the air change per minute.)

#### HOW TO ORDER YOUR BLO-FAN

Your architect or builder will specify the correct Blo-Fan by name and model number for the electrical contractor. Just tell him you want Blo-Fan and that it is listed in Sweet's 1950 Catalog—File 29b-7.

Ask your electrical contractor to install Blo-Fan, there is no substitute.

For further information and the names of your nearby distributors just mail the handy self-addressed reply card.

#### GUARANTEE

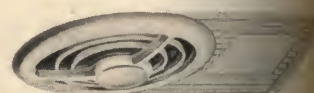
The Blo-Fan is fully guaranteed against electrical and mechanical defects for a 5-year period, on a pro-rata basis. Blo-Fan is trouble-free!

## ANOTHER Blo-Fan EXCLUSIVE



### 9 SPEEDS FORWARD

This nine-position control switch which is standard equipment on the Blo-Fan Model 210, allows the housewife to regulate the rate of ventilation in her home as easily as she controls the speed of her automobile.



#### FAN AND RECESSED LIGHT

The perfect combination. Extremely popular because it provides a Pryne recessed light in conjunction with the Blo-Fan "Spot" ventilator. 100-watt lamp gives ample illumination for kitchen range.

#### DISCHARGE FITTINGS

The duct from your Blo-Fan normally will discharge through a side wall, through the roof or through an eave, depending on the type of building construction. Fittings are available for all of these conditions.



**ELBOW**—Used for 90 degree turn of duct up from ceiling. Contains baffle to keep air from piling up at turn.



**WALL CAP**—Automatic louvers prevent cold air and headwinds from backing up into duct.



**EAVE CAP**—For use where discharge is desired through eaves. Also has automatic louver similar to wall cap.

**IMPORTANT**  
Insist on this trade mark when you get your home ventilators.

# Blo-Fan

THE MOST COPIED HOME VENTILATOR IN AMERICA

## PRYNE & CO., INC.

Pomona, California

Factories: Pomona, California; Newark, New Jersey

Warehouses: Los Angeles, San Francisco, Chicago, Atlanta

Stocked by more than 600 wholesalers in 350 cities in all parts of the United States and Canada.





New Notes In Lighting Harmony



**Pry-Lite**

Modern Recessed Lights With SNAP-ON Fronts



Pry-Lites Enhance That New Home Look—Save Housework . . .  
the following pages tell you how



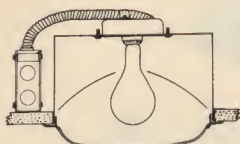
# Enhance your new home with *Pry-Lites*



Grace and beauty are captured in the home with Pry-Lites—attractiveness and charm are coupled with tactful harmony. Add to this the sweep of natural contours displayed in the unbroken flow of spaciousness in each room . . . Smooth ceilings and walls, lighting perfectly blended with color and decor . . . Pry-Lites truly give an air of up-to-date distinction to your new home and will add immeasurably to pleasant and enjoyable living.

Regardless of architecture, color motifs or styling, there are Pry-Lite models for every room in the home. They harmonize with every design. New attractive finishes of chrome, copper, brass and painted silver grey are richly compatible to the best furnishings and interior decoration. Beautifully patterned glass gives clear, full illumination without glare or dark spots. Pry-Lites are the modern recessed lighting fixtures that give your home real light harmony at all times. Yet, Pry-Lites are so inherently utilitarian that they save hours and hours of tedious and annoying work.

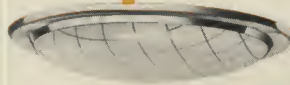
**MODEL 1054**  
150 WATT



Model 1054, 150 Watt  
11" Diameter x 8"



—11 Lens. 100—150 Watts

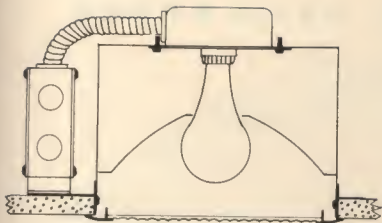


—12 Lens. 100—150 Watts

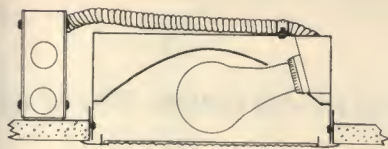




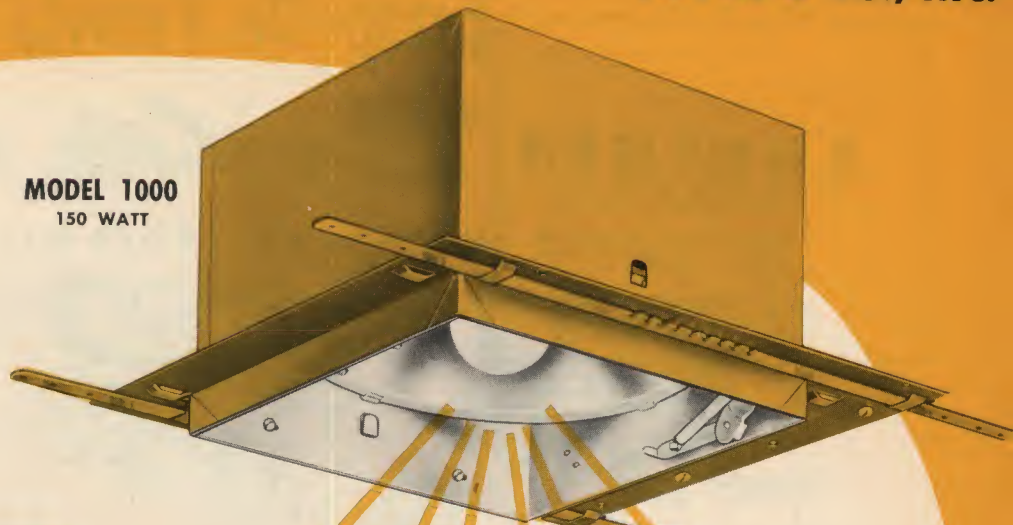
**MODEL 1000**  
150 WATT



Model 1000, 150 Watt  
9" x 9" x 8"



Model 1070, 100 Watt  
9" x 9" x 5"



—1 Lens. 100—150 Watt

—2 Lens. 100—150 Watt

—3 Lens. 150 Watt only

—4 Lens. 100—150 Watt

—5 Lens. 100 Watt only

—6 Lens. 100 Watt only

Housings are essentially the same in appearance for Models 1000 and 1070.

## Pry-Lites Are Easy To Install

These modern recessed lighting fixtures are exceptionally economical to install. They fit between standard joists or studs and are equipped with easily accessible pull boxes and adjustable plaster flanges that fit any finish. Mounting straps eliminate framing-in expense.

**Pry-Lites Feature 6 Interchangeable Fronts for the 1000 and 1070 Series.**

All fronts are available in chrome, brass, copper or painted silver grey.

All "1000 series" Pry-lites may be wired with Romex, R, T, or TW wire—NO asbestos wire or separate pull box required.



Model 1067-25, 300 Watt



Model 1067-26, 300 Watt



Model 1003, 200 Watt



Model 1075, 75 Watt with  
R-30 Reflector Lamp



13" x 13" x 12"



13" x 13" x 12"



8" x 18" x 7 1/8"



5 1/2" Diameter x 5 1/2"

Model 1050, 150 Watt with  
R-40 Lamp also available

**Pry-Lites Feature Moderate  
First Cost and Economical  
Installation—They Give You More  
for Your Lighting Dollar**

**Pry-Lites save housework!**

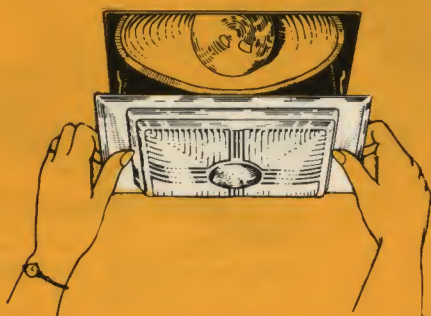
THE NEXT PAGE TELLS YOU HOW...



# "Snap-On Fronts"

## ANOTHER *Pry-Lite* EXCLUSIVE!

INSTANTLY INSTALLED—INSTANTLY REMOVABLE



Pull down to relamp.



Easy to remove.



Easy to clean.

**EASY TO RELAMP—EASY TO CLEAN—PERFECTLY SMOOTH FRAME—NO SCREWS—NO HINGES—NO CAP NUTS**

Here is the newest and most sensational feature ever incorporated in a recessed or flush lighting fixture. Fronts and glass that "Snap-on"! They are easy to install, easy to clean

or relamp and instantly removable at any time. The glass is securely fastened in the frame and there are no screws, no hinges or cap nuts to worry about.

### Special Feature Fixtures



#### No. 151—NIGHT LIGHT

Fills a long-felt need where a small amount of floor illumination is desirable at night. Has a built-in switch and AN ADJUSTABLE SHUTTER—permits control of both intensity and spread of light from the 7½-watt lamp. Ideal for nurseries, sick rooms, halls, stair landings. Fits flush with the wall.

3¼" x 4½" x 3⅞"



#### No. 158—AUTOMATIC CLOSET LIGHT

No more feeling for a drop cord or reaching for a wall switch as you open the closet door. This new Pry-Lite recessed closet light comes on automatically. No extra switch or expensive attachment to wire in for control purposes. One little adjustable lever at the top of the door turns the light on and off as the door is opened and closed.

4⅞" x 9" x 3⅞"



#### No. 404—PRY-LITE ILLUMINATED HOUSE NUMBER

Most beautiful, most readable house number available. A Pry-Lite development, using the latest ideas in "edge-lite" illumination. Light travels through the glass from the two ends providing evenness of illumination. Smooth, die cast surface. Finished in brass, statuary bronze and aluminum. Accommodates up to 5 digits.

SURFACE-MOUNTED—11⅞" x 3⅝" x 7⅞"

### HOW TO ORDER YOUR PRY-LITES

Your architect or builder will specify the correct Pry-Lites by name and model number in the electrical contract. Just tell him you want Pry-Lites!

Ask your electrical contractor to install Pry-Lites, there are no substitutes.

For further information and the name of your nearby distributor, just mail the handy self-addressed reply card.

### IMPORTANT

Insist on this brand name when you get your recessed lighting fixtures.

# Pry-Lites

ENHANCE THAT NEW HOME LOOK

**PRYNE & CO., INC.** Pomona, California

Factories: Pomona, California; Newark, New Jersey

Warehouses: Los Angeles, San Francisco, Chicago, Atlanta

Stocked by electrical wholesalers in all parts of the United States.





THERE'S A RHEEM JUST RIGHT FOR EVERY HOME

# Rheem

## AUTOMATIC WATER HEATERS

ALL TYPES

ALL SIZES

ALL FUELS



# Rheem

MANUFACTURING COMPANY

*World's Largest Manufacturer  
of Automatic Water Heaters*





# WHEN YOU BUY AN AUTOMATIC

BE SURE YOU GET ONE  
LARGE-ENOUGH TO GIVE YOU  
HOT WATER FOR ALL YOUR  
HOT WATER APPLIANCES



**BUY OVER-ALL QUALITY** Be sure the water heater you select is top quality throughout . . . soundly engineered, made of the best materials and fabricated by highly skilled craftsmen who feel a real responsibility to the ultimate users of the products they make. You get all this when you buy Rheem.

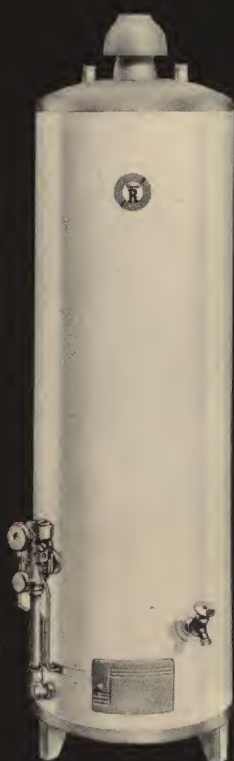
**BUY THE LATEST SCIENTIFIC DESIGN** For maximum efficiency, ease of operation and economy, insist on an automatic water heater incorporating the latest scientific advances. Rheem leads the field in the development of scientific refinements in water heater design. Rheem scientists and engineers are constantly at work in plants and laboratories maintaining that lead.

**BUY DURABILITY** You expect years of satisfactory service . . . so be sure the water heater you buy has the sturdiness to provide it. Rheem water heaters are built throughout for durability. And the Rheem galvanized steel storage tank—most vital point insofar as long life is concerned—is made by Rheem's special patented process for greater resistance to corrosion.

## GAS WATER HEATERS



SERIES 41



SERIES 31

### EXCLUSIVE DESIGN FEATURES OF RHEEM AUTOMATIC GAS WATER HEATERS ASSURE SUPERIOR PERFORMANCE

Rheem Automatic Storage Gas Water Heaters are available in a great range of models and sizes for safe and efficient operation with all types of gases. The two models illustrated are recommended for better class new homes and for replacement of old units.

**COMPLETELY AUTOMATIC** Thermostatic control of Grayson Unitrol is set with finger-tip touch. Burner then goes on and off automatically, maintaining temperature you want and conserving fuel.

**100% SAFE** Grayson Unitrol assures complete safety. If pilot light should go out, flow of all gas to both main burner and pilot is automatically cut off. And, during pilot lighting procedure, no gas can flow to main burner.

**FAST HEATING** Flue contains specially formed reverse spiral baffle which effectively forces combustion gases against inner flue achieving maximum heat transfer to water.

**ECONOMICAL** Combustion chamber and sturdy drilled-port-type burner are scientifically designed for efficient, economical use of fuel. Thick wall of highly resistant Fiberglas insulation surrounds storage tank, keeps water hot for long periods without reheating.

**CONSTRUCTED FOR LONG LIFE** Maximum durability is built into every feature. Tank of extra-heavy galvanized steel is made by exclusive Rheem-patented (Patent No. 2,444,833) process to withstand corrosion and working pressures greatly in excess of normal operation.

**EXTRA, TWIN MAGNESIUM-ANODE PROTECTION** For extra protection against corrosive elements in water, Rheem Series 41 is factory-equipped with twin magnesium anodes. This is optional equipment for other Rheem models and can be supplied at moderate additional cost.

**THE RIGHT MODEL FOR EVERY HOME** Shown here are two widely used Rheem models. Both are available in 20, 30 and 40 gal. sizes with high reheating capacities. Series 31 carries liberal 5-year protection plan. Series 41—outstanding value in higher price range—carries liberal 10-year protection plan and features heavier steel tank plus twin magnesium anodes. Rheem makes other gas models in various sizes, including 50, 75 and 100 gal. storage capacities. See sizing chart . . . There's a Rheem just right for your home.

**TESTING LABORATORY APPROVED** Rheem Gas Water Heaters are approved by American Gas Assn. and Good Housekeeping.



### SIZING CHART AUTOMATIC GAS WATER HEATERS

American Gas Association Water Heating Committee

#### MINIMUM RECOMMENDATIONS FOR NORMAL REQUIREMENTS

Number Bathrooms	Number Bedrooms	Gallons Storage Capacity	Recommended* Rheem	Reheating Capacity
				60° Rise Gals. per Hour AGA Standard
1	1 or 2	30	Series 31 or 41	42.0
1	3 or 4	40	Series 31 or 41	42.0
2	2 or 3	40	Series 31 or 41	42.0
2	4 or 5	50	Series 41 Large	69.9
3	3	50	Series 41 Large	69.9
3 or 4	or 5	75	Series 41 Large	84.0

\*Rheem model recommended to meet sizing chart specifications



# WATER HEATER FOR YOUR HOME:-

Rheem  
**R**

**BUY THE RIGHT TYPE AND SIZE** It's extremely important to your long-term satisfaction to get precisely the water heater suited to your needs. When you buy Rheem you make your selection from a complete line. Whatever the fuel preference or comparative fuel costs, the size of your home, the size of your family, the quantities of hot water required, there's a Rheem Automatic Water Heater just right for your needs.

**BUY ATTRACTIVE APPEARANCE** You'll want a water heater that is sleekly modern in appearance . . . easy to look at, easy to clean. Rheem Water Heaters are outstandingly attractive . . . smartly styled . . . beautifully finished. Wherever you choose to install your Rheem Water Heater—in kitchen, utility room, game room or elsewhere—its handsome modern lines will harmonize well with other features of the interior.

**BUY MANUFACTURER RELIABILITY** It pays to buy the products of a manufacturer with a longstanding reputation for outstanding products and integrity. Rheem has been a leader in the development of finer water heating equipment for many years. The name is world-famous for quality. That's one reason why Rheem today is the world's largest manufacturer of automatic water heaters.

BE SURE YOU GET ONE  
LARGE-ENOUGH TO SUPPLY  
PLENTY OF HOT WATER  
FOR ALL YOUR BATHROOMS



## RHEEM AUTOMATIC ELECTRIC WATER HEATERS PROVIDE HOT WATER SERVICE WITH MAXIMUM EFFICIENCY

In every aspect of water heater performance—efficiency, economy, ease of operation, safety, dependability and long life—Rheem Electric Water Heaters set new high standards. Made in a wide range of sizes and models, Rheem electric water heaters are available to meet power company requirements of various localities. Units shown here are ideal for replacement, modernization, and new home installation.

**COMPLETELY AUTOMATIC** Thermostatic control, set with touch of dial, automatically keeps water temperature at desired level.

**COMPLETELY SAFE** Automatic high-temperature cut-off provides guaranteed over-temperature protection, cuts off all current should excessive temperature occur. Easily reset. (Standard on Rheem Series 81 only.)

**EFFICIENT AND ECONOMICAL** Heating elements of highest quality "Nichrome" imbedded in magnesium oxide and sealed in seamless copper tube, are immersed directly in water . . . thus use all of current for water heating. Thick wall of highly resistant insulation surrounds storage tank, keeps water hot for long periods, saves electricity.

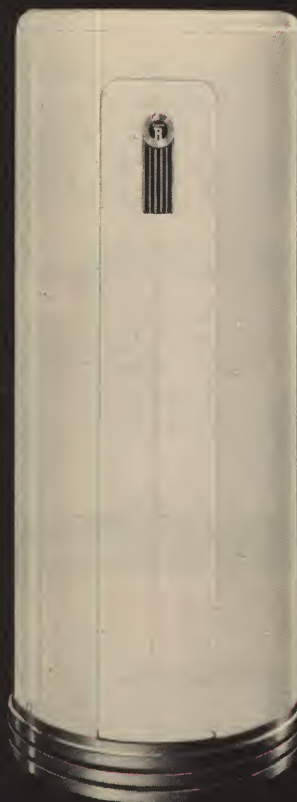
**BUILT FOR LONG LIFE** Every feature is constructed for maximum durability. Storage tank of extra-heavy galvanized steel is made by Rheem's special patented (Patent No. 2,444,833) process to withstand corrosion. It is covered by liberal 10-year protection plan.

**EXTRA, MAGNESIUM ANODE PROTECTION** For extra protection against corrosion, these units are supplied with factory-installed magnesium anodes.

**THE RIGHT UNIT FOR EVERY HOME** Rheem Series 81 is made in round, upright storage sizes ranging from 12 to 82 gals., and in table top storage sizes of 30 to 40 gals. Table top units fit alongside other kitchen appliances, providing extra table space. Other Rheem Electrics are made in wide range of sizes. If electricity is preferred and economical fuel in your locality, there's a Rheem just right for you.

**TESTING LABORATORY APPROVED** Rheem Electric Water Heaters are approved by Underwriters' Laboratories, Inc. and carry the Good Housekeeping Guarantee.

## ELECTRIC WATER HEATERS



SERIES 81 ROUND



SERIES 81 TABLE TOP

### SIZING CHART AUTOMATIC ELECTRIC WATER HEATERS MINIMUM RECOMMENDATIONS

No. in family	One bathroom Average needs	Two bathrooms Average needs
	Storage Capacity Gallons	Storage Capacity Gallons
1	52	52
2	52	66
3	52	66
4	66	82
5	66	82
6	66	82
7	66	82







## OIL WATER HEATERS

FOR HIGH-EFFICIENCY, LOW-COST WATER HEATING

Rheem Automatic Storage Oil Water Heaters operate on #1 commercial grade fuel oil or kerosene, furnishing safe, efficient water heating service with a minimum of fuel.

**COMPLETELY AUTOMATIC** Thermostatic controls, set with touch of dial, maintain temperature at desired level.

**COMPLETELY SAFE** Automatic safety control shuts off fuel if pilot light is extinguished.

**AMAZINGLY ECONOMICAL** Rheem-engineered, vaporizing pot-type burner burns fuel with peak efficiency, cuts oil consumption to minimum. Insulation between jacket and storage tank maintains water temperatures without frequent reheating.

**RUGGEDLY CONSTRUCTED** Every feature is built for long, trouble-free service. Galvanized steel tank is made by Rheem's patented (Patent No. 2,444,833) process for highest quality. Unit can be equipped with magnesium anode rod protection for nominal increase in cost.

**Oil Water Heater Sizing Chart**

Number Bathrooms	Number Bedrooms	Storage Capacity Gallons
1	1 or 2	30
1	3 or 4	50
2	2 or 3	50
2	4 or 5	50

### YOU'LL BE HAPPIER IN YOUR HOME WITH A FULLY ADEQUATE . . . TRULY MODERN WATER HEATER!

Today's advanced standards of comfort, convenience and sanitation call for hot water in abundant quantity. Dish-washers, washing machines and other time-and-labor-saving devices *must* have adequate supplies of hot water to operate efficiently. If you wish to enjoy the fullest measure of hot water benefits in your home, insist on a soundly engineered, quality-built, truly modern water heater in the right type and size to meet your needs.

Rheem Automatic Heaters provide hot water instantly and abundantly all the time . . . they do so efficiently, economically and safely . . . and they are sturdily built for long life.

Ask your architect or builder to help you select the fuel type, model and size best suited to your requirements. If you are modernizing an old house or replacing outdated, inadequate water heating equipment, consult your merchant plumber. Always look for the sign that identifies the Rheem Reliable Dealer.

LOOK FOR  
THE SIGN  
THAT IDENTIFIES  
THE RHEEM  
RELIABLE DEALER



**Rheem**  
**home**  
**comfort**  
**appliances**

*Rheem manufactures a large family of finer appliances for more comfortable living—water heaters, soft water appliances, heating appliances, evaporative coolers, household tanks—all made to meet Rheem world-famous standards of quality.*



gas  
water heaters



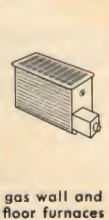
electric  
water heaters



soft water  
appliances



gas console  
heaters



gas wall and  
floor furnaces



gas-fired  
winter air  
conditioners



automatic  
coal stokers

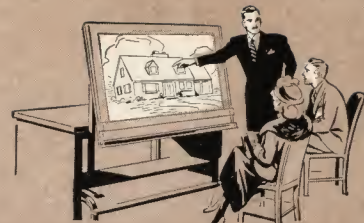
# RHEEM MANUFACTURING COMPANY

570 LEXINGTON AVENUE

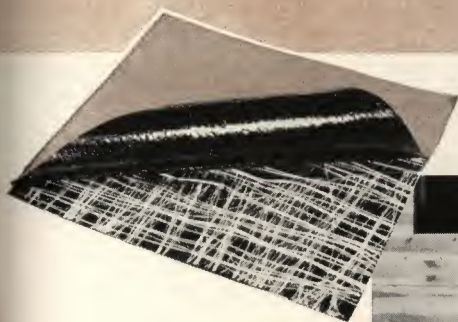
NEW YORK 22, N. Y.



# Get the "whole truth" About All Three **SISALKRAFT** Products

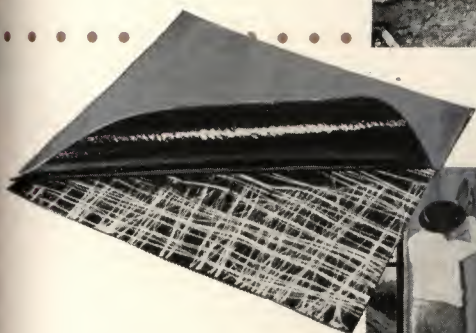


## 1 **SISALKRAFT Reinforced Building Paper:**



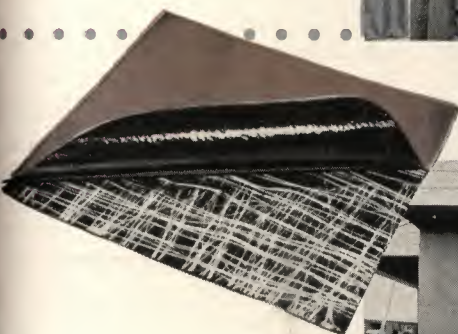
Costs a little more than ordinary tar paper (\$5 to \$25, depending on the size of your home), but **SISALKRAFT** is *worth a lot* more, and it costs less to apply. Talk this over with your architect or contractor.

## 2 **SISALATION Reinforced Reflective Insulation:**



**COSTS 50% LESS** than "bulk" or "blanket" types of insulation. Acts as a vapor barrier, as well as effective insulation. Meets FHA vapor-barrier requirements. **COSTS LESS TO APPLY!**

## 3 **COPPER ARMORED SISALKRAFT:**



**COSTS 80% LESS** than heavy sheet-copper for concealed flashing around door and window openings, foundation damp-coursing, etc. . . . and **COSTS LESS TO APPLY!**

**USE ALL THREE AND YOU'LL SAVE MONEY**  
and get quality construction!

*Use both **SISALATION** and **SISALKRAFT** for Permanently DRY WALLS*



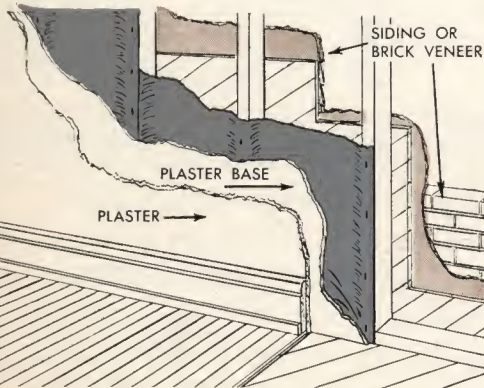
**THE SISALKRAFT CO.**

205 W. Wacker Drive, Chicago 6, Ill. • New York 17, N. Y. • San Francisco 5, Calif.

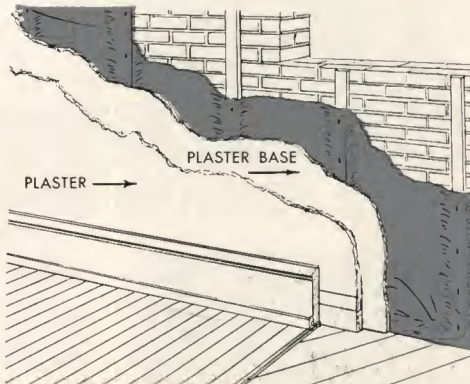


**For about \$25.00 per 1,000 sq. ft. you get effective insulation plus a vapor-barrier**

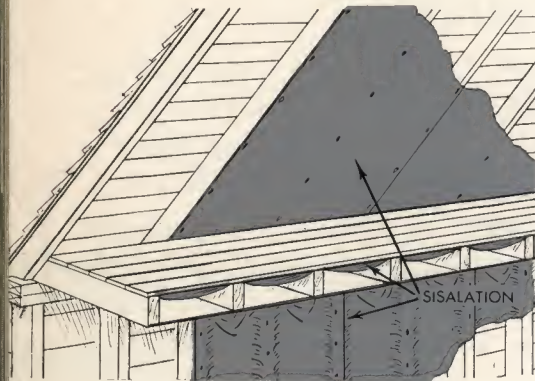
**with**



**SIDEWALL: Frame or Brick Veneer:**  
36-inch SISALATION is applied vertically, "bowed in" between studs so as to create two air spaces. For moisture-vapor protection, SISALATION should extend over plate and sill.

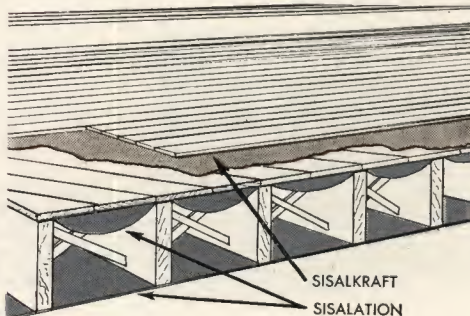


**SIDEWALL: Solid Brick or Concrete Block:**  
SISALATION is applied vertically and stapled to the furring strips, as shown. It should be applied somewhat loosely, but should be kept free from touching the brick or concrete wall at any point.



**UNDER ROOF RAFTERS:**

48" Sisalation stapled under roof rafters makes your attic 10° to 15° cooler in summer, warmer in winter, clean and light all year round. Sisalation applied between the ceiling joists provides you with much needed insulation.



**UNDER FLOORS:**

SISALATION is "draped" between the floor joists to provide insulation and to stop air and moisture infiltration from below. Can also be applied flat under the joists.

**1** SISALATION is effective insulation, equivalent in heat-saving value to about  $\frac{3}{4}$ " of flexible or rigid-types of quality insulation (based on Massachusetts Institute of Technology tests on side-walls constructed with a single layer of reflective SISALATION).

**2** SISALATION acts as an air-tight vapor-barrier, thus protecting against dry-rot, paint failure, and condensation. Meets FHA requirements as a vapor-barrier. (Class A, Federal Specification UU-P-147).

**3** SISALATION does two permanent, important jobs, at one application cost . . . provides insulation *plus* a vapor-barrier, both at the same time.

**4** SISALATION is reinforced with sisal fibres of steel-like strength. It is so strong that one man can apply it over two stud-spaces without risk of having the SISALATION rip or tear. This means low application costs.

**5** SISALATION reflects radiant heat, thus keeping the home much cooler in summer, much warmer in winter. Makes attics livable and attractive.

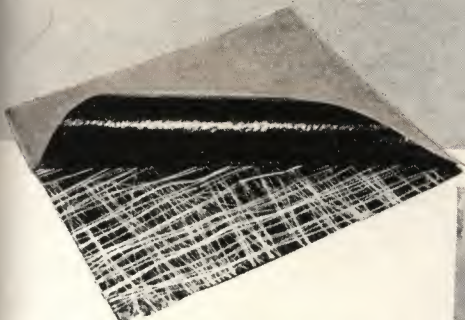


*IN MILD CLIMATES, where single-wall construction is permitted, SISALATION serves ideally as sheathing paper, insulation and vapor-barrier, all in one!*

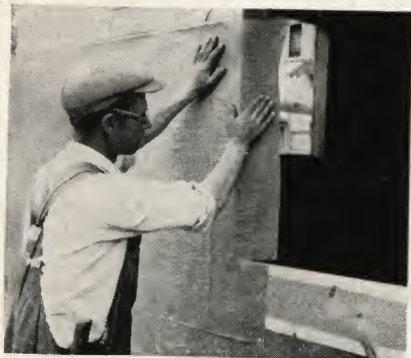




# Your home gets lifelong protection from entry of wind, dust and moisture with reinforced **SISALKRAFT**



SISALKRAFT consists of two heavy sheets of tough, specially treated kraft paper, bonded together with two layers of asphalt in which are embedded thousands of cross-laid sisal fibres of steel-like strength. That's why SISALKRAFT is so tough, waterproof, windproof, dustproof, and resistant to dry-rot or mildew. In Sisalkraft the asphalt is protected from air, on both sides, by heavy treated paper. Without this protection asphalt will oxidize and lose its waterproof qualities.



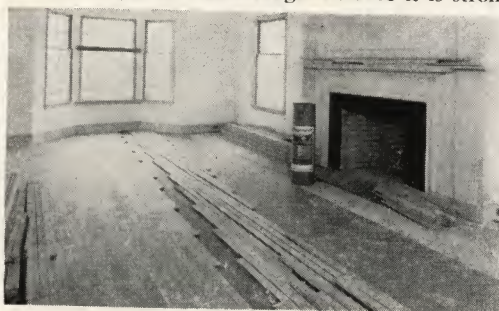
## AS SHEATHING PAPER:

Easier to apply. Lasts a lifetime. SISALKRAFT does a better job and lasts longer because it is stronger and more waterproof.

If the building paper fails in the side-walls of your home, the rooms will become damp, cold and drafty. To replace faulty building paper you would have to completely remove the shingles or siding. That would be a costly tragedy indeed!

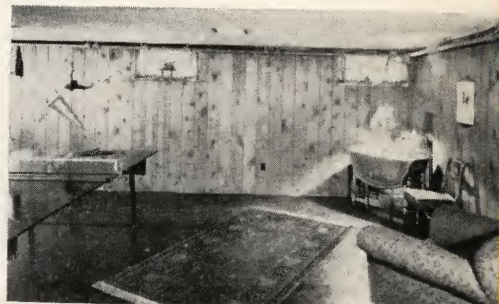
Do you see how important it is not to compromise on building paper, especially in view of the fact that its cost is so small an item in the total investment you make in your home.

For use over exterior sheathing of frame, brick veneer, stucco or stone-faced houses . . . and for other uses illustrated here . . . you can depend upon SISALKRAFT for the best possible results. The extra cost of SISALKRAFT as compared with ordinary paper is very little, and it certainly is more than worth an extra FEW dollars to get the best possible protection. Your contractor can buy SISALKRAFT at only about \$1.50 per 100 sq. ft., and at that low cost you can't afford to build without it.



## UNDER FLOORING:

Helps prevent warping, creaking, and drafts. Keeps out moisture.



## DRIER BASEMENT FLOORS:

Lay SISALKRAFT over the subfill before pouring concrete.



## AS A VAPOR-BARRIER:

Keeps moisture-vapor from entering walls and condensing within the wall itself. Meets FHA specifications.

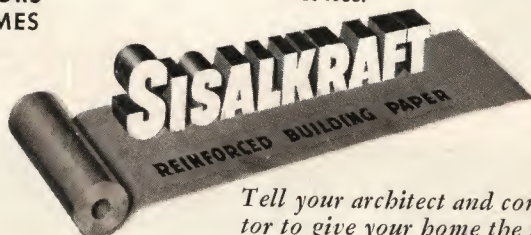


## BETTER CONCRETE

driveways, walks, basement floors. By covering newly-poured concrete with SISALKRAFT, you are sure of properly cured concrete; tougher, longer lasting . . . because the concrete becomes harder and dust-free.

## UNDER CONCRETE FLOORS OF BASEMENTLESS HOMES

Before pouring concrete lay SISALKRAFT over the subfill to prevent loss of concrete and help repel moisture absorption through your floor. Drier, more dust-free floors will result.



Tell your architect and contractor to give your home the benefits of SISALKRAFT in all the uses shown here.





# ... and now you can add the permanent protection of pure copper in your home at about 1/5<sup>th</sup> the cost of sheet copper, with **COPPER ARMORED SISALKRAFT**

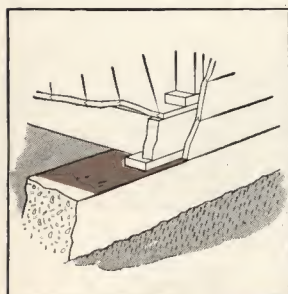


**T**HROUGH the ages, enduring copper has been used to protect fine buildings from the ravages of moisture that works its way into unprotected cracks around door-and-window openings and other junctures. Of course, heavy copper sheets for these purposes are costly, and this has limited their use to the more expensive homes.

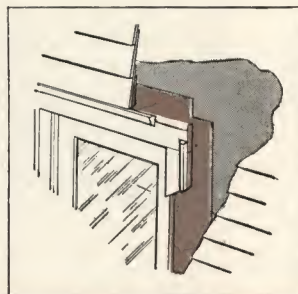
Now, however, at 1/5<sup>th</sup> the cost of heavy copper sheets, **COPPER ARMORED SISALKRAFT** provides a thin, continuous, unbroken sheet of pure copper and tough, reinforced **SISALKRAFT**. This combination assures the same protection against moisture, termites, etc. as much heavier copper sheets. In addition, **COPPER ARMORED SISALKRAFT** has great strength and

pliability which make it easier to apply. It can be formed around contours easily, and does not kink, crack, or develop pin-holes... thus improving the application job. Available in 3 weights: 3-ounce, 2-ounce, and 1-ounce (the weight per square foot of the pure copper sheet). Discuss this with your architect or contractor.

**For Foundation Damp-coursing • For Flashing Door and Window Openings**



(See illustration at left): 2-oz. or 3-oz. Copper Armored Sisalkraft protects sills and joists against rotting caused by moisture rising through foundations. In the average home this would cost about \$15.00 for 2-oz., or about \$20.00 for 3-oz. Copper Armored Sisalkraft.



(See illustration at right): 1-oz. Copper Armored Sisalkraft seals vulnerable areas like these against infiltration of air and moisture, at a cost of only 75¢ a window.

**OTHER USES:** Corner Flashing • Drip-Cap Flashing • Flashing Roof and Sidewall Junctures • Mired Roof Flashing • Ridge Roll Flashing • Termite Barriers • Apron Damp-coursing • Membrane Waterproofing • Waterproofing Shower Stalls, Built-up Roofs, etc.

**SEND FOR  
FREE SAM-  
PLES AND  
COMPLETE  
PRODUCT  
FACTS**

Please send, without cost or obligation, more information and samples of Sisalkraft Products; also where they can be obtained.

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_

My Architect  
(Name & Address) \_\_\_\_\_

My Contractor  
(Name & Address) \_\_\_\_\_



**THE SISALKRAFT CO., Chicago 6, Ill.**

New York 17, N.Y. • San Francisco 5, Calif.


SISALKRAFT PRODUCTS ARE AVAILABLE THRU LUMBER AND BUILDING MATERIAL DEALERS



**IN YOUR NEW HOME...** *Electricity*  
**WILL BE ONE OF YOUR MOST VALUABLE SERVANTS**



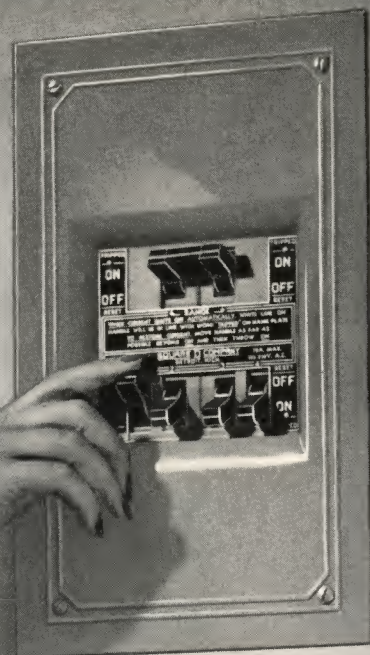
*Now is the time to be sure it will serve  
you to the utmost...through the years*





# Your Home

## DESERVES THE



**E**VERYONE appreciates electricity but few understand it. We take for granted such modern conveniences as electric lights, radio, fans, refrigerators, water heaters, washing machines, ironers, electric ranges and kitchen appliances. We seldom consider how electric current comes into our house and what is required to make it a safe and reliable servant.

Electric current flows through wires, just as water flows through pipes. If pipes were too small, you couldn't draw water in your kitchen and in your bath at the same time at full pressure. If wires are too small, you can't add electrical conveniences as you want them. That is why adequate wiring should be built into the house. It is expensive to change later on.

Be sure your plans assure full-comfort wiring in your home. Be sure, too, that they include the Square D Multi-breaker — the modern electric circuit protection which eliminates fuses and fuse replacement.



*Neat and compact, the Multi-breaker can be installed in any convenient wall.*



# CONVENIENCE AND PROTECTION

## of SQUARE D's MULTI-BREAKER

It controls the distribution of electric current and protects your home against the hazards of short circuits and dangerous overloads. It ends FOREVER the annoyance and inconvenience of blown fuses.

The Multi-breaker ELIMINATES FUSES COMPLETELY. When a short circuit or dangerous overload occurs the circuit is cut off automatically. A simple movement of a non-metallic shock-proof lever restores current unless danger still exists. The Multi-breaker is approved by Underwriters' Laboratories for all home construction.

Multi-breakers are the most modern electrical control available. They are not expensive and, as your electrical contractor will tell you, they cost no more to install than fusible equipment.

- ✓ Ask your architect to specify Multi-breakers in your plans
- ✓ See that your contractor installs Square D Multi-breakers



### *Remember these 3 Important "Musts"*

**ENOUGH CIRCUITS** to spread the electrical load. If too many appliances are in use at the same time and on the same circuit, your appliances can't serve you as efficiently as they should.

**ENOUGH OUTLETS.** By providing for enough outlets in every room, you do away with long extension cords. Also, you allow yourself complete leeway in rearranging your furniture.

**THE SQUARE D MULTI-BREAKER.** It ends, forever, the annoyance and inconvenience of changing fuses. Nothing to forget—nothing to replace.

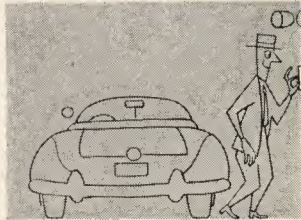
*No annoying delays. Current is restored when it is needed.*



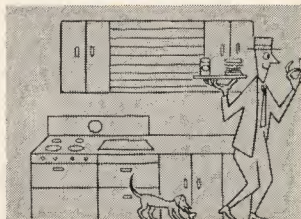
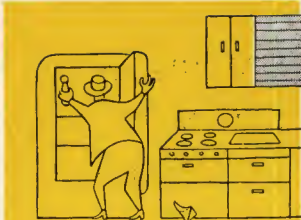
# Light the path ahead

WITH SQUARE D's

## NEW Remote Control Lighting System



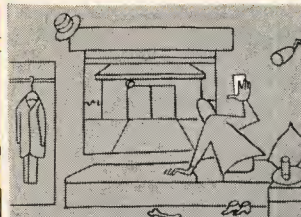
LIGHTS OFF IN GARAGE  
AND ON IN KITCHEN



LIGHTS OFF BEHIND  
AND ON AHEAD



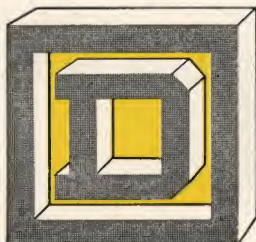
LIGHTS ON FOR A LOOK  
THEN OFF ALL OVER



### Control Lights—Inside and Outside from One Convenient Location . . .

From a master switch, usually located in the master bedroom, you can switch any or all of the lights "ON" or "OFF," throughout your home. For example, you can immediately turn on nursery and bathroom lights—the lights in the garage—entrance lights—yard lights—or flood the premises with light in an emergency. Several master switches can be used in different locations.

Here is modern convenience for the modern home



## SQUARE D COMPANY

DETROIT

MILWAUKEE

LOS ANGELES

SQUARE D COMPANY CANADA LTD., TORONTO • SQUARE D de MEXICO, S.A., MEXICO CITY, D.F.

for greater

• **CONVENIENCE...**

• **SAFETY...**

• **COMFORT...**

at very reasonable cost

The sketches at the left show how this new Remote Control Lighting System enables you to economically *LIGHT THE PATH AHEAD*. You can turn on lights in the rooms before you, while turning out lights in the rooms behind you—all from one location. You can operate each light in your home from any number of control switches located at convenient points. The system enables you to plan lighting control tailor-made to your own convenience.

Ask your architect to include SQUARE D's REMOTE CONTROL LIGHTING in your specifications.

Remember—the cost is surprisingly low.







# Your Heating ...

## AND WHAT TO DO ABOUT IT

**H**eating is as important to your home as the brick-and-mortar or the furniture. Because modern heating is more than being cozy and warm. It's filtered warmth. Properly-humidified warmth. *Healthful, truly comfortable warmth.*

*Here are three big, basic questions you'll want answered about your heating:*

### IS IT DEPENDABLE?

Unlike most of your home's structure, a heating unit is made up of moving parts, hidden parts, parts subject to intense heat and pressure. They must operate perfectly, permanently. One of the best ways to insure a trouble-free heating system is to look for a manufacturer with a ranking reputation for dependable equipment — such as Thatcher Furnace Company.

Thatcher has been turning out fine heating equipment longer than any other name in the field — for over four generations of home builders! Many Thatcher units installed 40 and 50 years ago are still in active, efficient service.

### IS IT ECONOMICAL TO OPERATE?

Many modern heating units, such as Thatcher's, are now equipped with features that can save real dollars on your fuel bill. Thatcher's fuel-saving features are explained on the following pages. Home owners actually report fuel savings up to 15% with Thatcher units.

### IS IT THE RIGHT TYPE AND SIZE FOR MY HOME?

This has a lot to do with the operating efficiency and economy of heating your home. Your contractor and arch-

itect can give you excellent advice on what type of heating unit is best for the home you are planning. You'll find your Thatcher dealer trained and competent on all heating problems and glad to give you a hand in selecting the right model to fit your needs. (Send us the enclosed postcard and we will give you his name.) Whatever your needs — warm air, hot water, radiant heating... oil-fired, gas-fired, coal-fired—Thatcher has just the right model for you.

### NOTE:

Thatcher is a *specialist in heating* and only heating. We concentrate all our technical skill, research, production and service facilities in this one field. We make a dependable, economical, line of residential heating equipment. And we've been making it longer than any other name in heating — for 100 years.

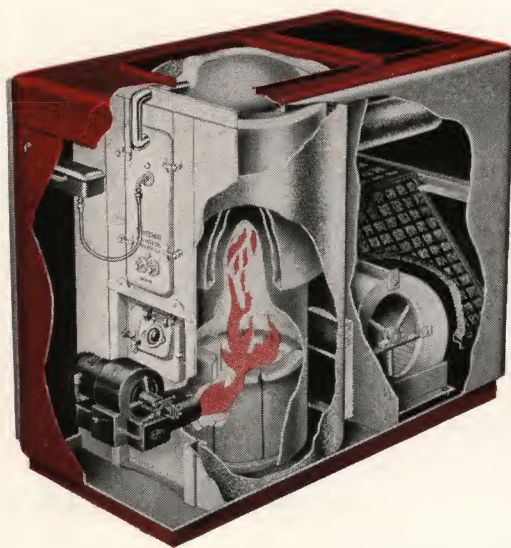




**GET STEADY, ECONOMICAL,**

*healthful heat*

**THATCHER WINTER**



**OIL-FIRED**

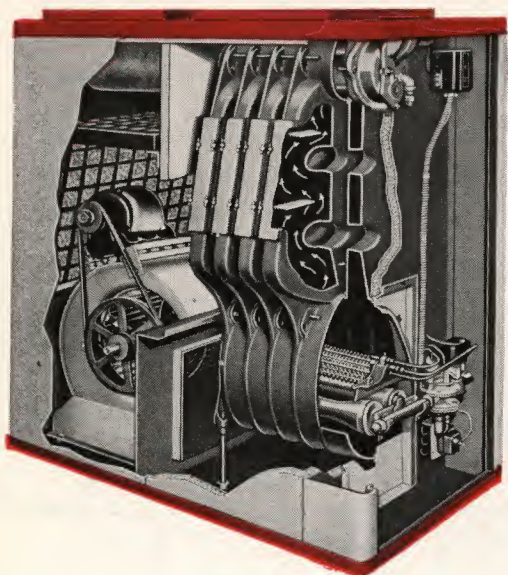
*Comfortmaster*



**GIVES MORE HEAT — TAKES LESS FUEL** — Extra-heavy heat extractors save the heat for your rooms instead of sending it up through your chimney.

**PROTECTS HEALTH AND FURNISHINGS** — Automatic vaporizing humidifier injects proper amount of health-guarding moisture into the air. Assures longer life for household furnishings, too. Humidifier is fully-automatic. Heavy cast-iron—for long service.

**WHISPER-SILENT OPERATION** Heavy-duty blower is specially-designed, quiet, multi-blade type, furnishes generous flow of heat without a sound.



**GAS-FIRED**

*Comfortmaster*



**DESIGNED TO SAVE FUEL** — The travel of the fire is staggered over a greater area of the super-sized heat extractors. Result: Extra heat for amount of fuel used.

**APPROVED BY AMERICAN GAS ASSOCIATION** for Butane-air and Propane gas as well as conventional city gas.

**AUTOMATIC VAPORIZING HUMIDIFIER** for health-guarding moisture in the air you breathe.



# WITH THESE FULLY AUTOMATIC

## AIR CONDITIONERS

**JUMBO-SIZED REMOVABLE FILTERS** remove dust, dirt, pollen from your air.

**MULTI-BLADE BLOWER** rubber mounted for quiet operation, generous flow of heat.

### Engineering Data and Dimensions

Number of Unit	B.T.U. Capacity at register	Recommended Oil Consumption G.P.H.	Height	Length	Width
V-116	90,000	1.0	46	55	30
V-120	140,000	1.5	50	65	35 $\frac{3}{4}$

**KEEPS HOME CLEAN, CUTS DOWN DUST AND POLLEN** — Jumbo-sized filters remove dirt, dust, pollen from the air before it enters your home. Filters are long-lasting, easy to clean and inexpensive to replace.

### Engineering Data and Dimensions

Model Number	B.T.U. at register	C.F.M. at 85° Rise	Height	Length	Width
GA-54	54,000	670	52 $\frac{1}{2}$	37	27
GA-71	71,000	850	52 $\frac{1}{2}$	40	27
GA-87	87,000	1040	52 $\frac{1}{2}$	47	27
GA-102	102,000	1230	52 $\frac{1}{2}$	50	27
GA-116	116,000	1380	52 $\frac{1}{2}$	56 $\frac{1}{2}$	27
GA-130	130,000	1560	52 $\frac{1}{2}$	59 $\frac{1}{2}$	27



## GAS-FIRED *Hi-Boy*

*For quick, safe, efficient heat...for smaller homes — the newly-developed, fully-perfected Gas-Fired Hi-Boy.*

**SUPER-SPEED THERMOSTAT RESPONSE** for faster heat, less fuel. New, quicker response to your thermostatic controls means almost instantaneous heat. Costs less, since less fuel is needed.

**AGA APPROVED** — Equipped with the latest safety devices. Fully approved by the American Gas Association, after undergoing their stringent safety and performance tests.

**SPACE-SAVING**, compact design. Perfect for the smaller, basementless home. Easily installed in utility room or similar space. Handsome ma-ron crinkle-finish casing looks smart in any room, is easily cleaned.

### STURDY STEEL HEATING ELEMENT PORT TYPE BURNER

Model Number	B.T.U. output at register	CFM at 95° rise	Height	Width	Depth
491-42	42,000	450	55	20	23
491-55	55,000	580	55	23	25 $\frac{1}{2}$
491-70	70,000	740	55	26	28



\*for hot water heat\*for steam heat

\*for hot water whenever you want it .....

## HERE'S THE SUPERIOR BOILER WITH THE **AUTOMATIC FEATURES**



**THATCHER**  
*Oilmaster*  
*Boiler*

### HEAVY-DUTY, CAST IRON, FOR YEARS OF SERVICE

There's over a ton of *cast iron* in this durable boiler. Here's a piece of equipment that is built to last. Tongue and groove joints specially designed — can't leak or short-circuit fire travel.

### "FIVE-WAY FIRE TRAVEL" KEEPS FUEL COSTS DOWN

Heat-producing gases travel back and forth through this boiler *five* times — squeezing every bit of heat out of every drop of oil. Another money-saving feature: Thatcher's boiler fins are extra-extended, provide greater heating surface — means more heat from less fuel.

### THATCHER TANKLESS HEATER GIVES YOU AUTOMATIC HOT WATER, SAVES SPACE

Plenty of domestic hot water whenever you want it — year 'round! Tankless heater fits into back compartment of boiler, saves storage tank (optional equipment).

Engineering Data and Dimensions

Boiler Number	Net I-B-R Rating		Recommended Oil Consumption G.P.H.	Height	Width	Length
	Steam sq. ft.	Water sq. ft.				
015-A	350	560	1.30	54	28	44 $\frac{5}{8}$
016-A	450	720	1.60	54	28	48 $\frac{5}{8}$
017-A	550	880	1.90	54	28	52 $\frac{5}{8}$
018-A	650	1040	2.25	54	28	56 $\frac{5}{8}$
019-A	750	1200	2.50	54	28	60 $\frac{5}{8}$
020-A	850	1360	2.80	54	28	64 $\frac{5}{8}$

A COMPLETE LINE OF RESIDENTIAL HEATING EQUIPMENT  
• WINTER AIR CONDITIONERS • FURNACES • BOILERS • OIL  
FIRED • GAS FIRED • COAL FIRED • GARWOOD, NEW JERSEY







Keeps your whole  
house free from  
greasy smoke and  
cooking odors

***TRADE-WIND***  
***CLIPPER***  
**CEILING VENTILATOR**

THE *only* CEILING VENTILATOR WITH THE POWER BLOWER DISCHARGE



# Springtime freshness in your kitchen...ALL YEAR!

**OVEN HEAT...GREASY SMOKE AND FUMES FROM FRYING...CABBAGE, CAULIFLOWER AND OTHER COOKING ODORS...STEAM AND CONDENSATION...ALL ARE WHISKED INSTANTLY OUTDOORS BEFORE THEY CAN DRIFT THROUGH YOUR HOME**

## CEILING INSTALLATION

Almost like magic your kitchen...and your entire house...stay fresh and clean and odor-free, once this inconspicuous Trade-Wind Clipper ceiling ventilator is installed in your kitchen.

Hidden in the ceiling *directly above the stove* and vented out-of-doors, the powerful yet quiet suction of the Trade-Wind Clipper catches the greasy smoke and odors as they rise and instantly expels them.

It will keep your new home *new* and make old homes fresh again. The traceable savings in cleaning, washing

and painting that you will realize, more than pay for the Trade-Wind Clipper.

A Trade-Wind Clipper is the finest kitchen ventilator you can install. Every feature has been designed for your convenience and comfort. Tens of thousands of these units are in daily use from coast to coast...and many of them are over 15 years old! Study the important advantages shown at the right which Trade-Wind alone gives you. It is the *only* ceiling ventilator with the power discharge through a squirrel-cage blower...with the motor located completely outside the greasy air stream...with the attractive dripless grille...and with such easy-to-clean features. In addition, every Trade-Wind Clipper carries a written five-year guarantee.

Be sure your architect or builder specifies Trade-Wind Clipper *by name* for your home. Or ask your electrical contractor or dealer to install one for you. Installation is easy and inexpensive.

This phantom view shows how the Trade-Wind Clipper is installed between ceiling joists with only the grille visible. Note the powerful blower and isolated motor. Three attractive installations are shown in the photos below.

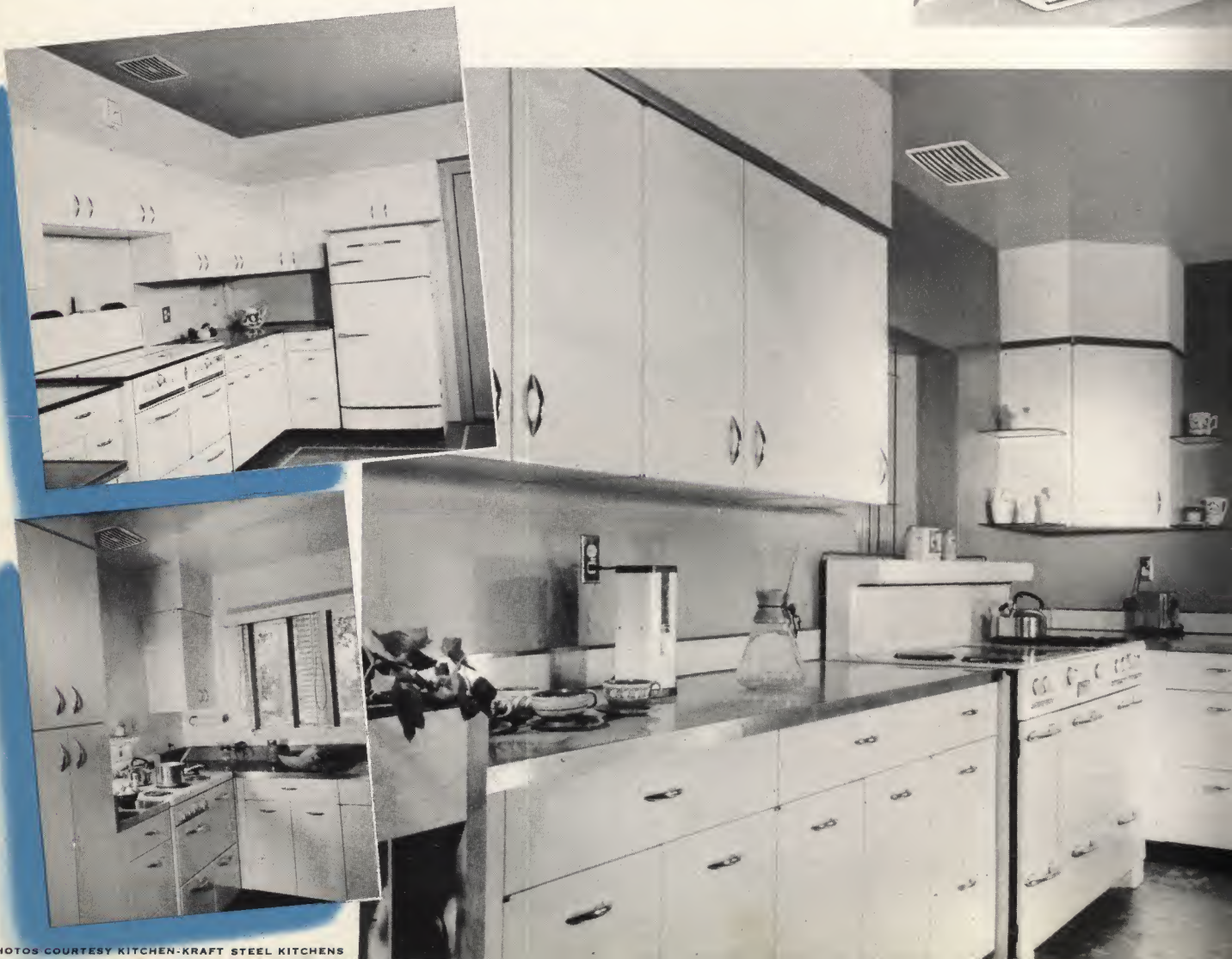
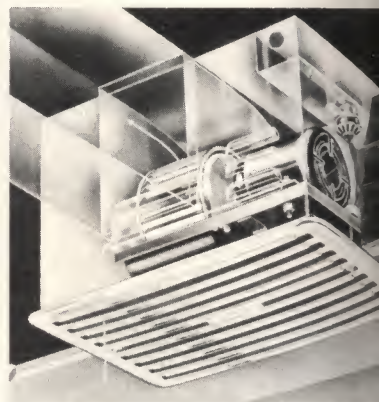






PHOTO COURTESY SOUTHERN CALIFORNIA GAS COMPANY

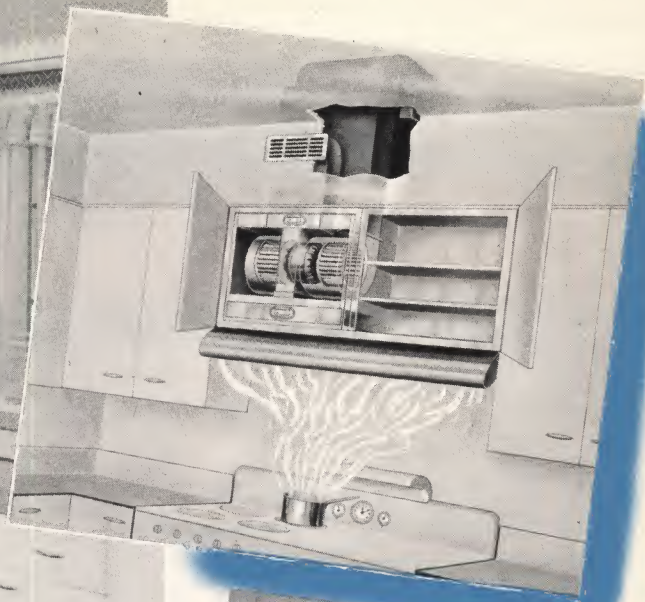


PHOTO COURTESY ST. CHARLES CUSTOM BUILT KITCHENS

## CABINET INSTALLATION

All the outstanding Trade-Wind features are now available in the Super Clipper for installation within a cabinet located directly above the stove.

This Trade-Wind unit effectively draws off all cooking heat, grease and odors from top-of-the-stove cooking as well as oven heat. Equally as important is the second inlet provided at the ceiling to remove the hot air at this level. Both the stove and ceiling inlets are equipped with metal air filters which are easily removed and cleansed by dousing in soapy water. The hood, which folds under when not in use, is optional.

The Super Clipper may be installed within a wood or metal cabinet directly over the stove as is shown in the phantom view above. Only half the cabinet is used, leaving the rest for storage.

Photos at right and left show typical installations.

The Super Clipper may be installed into any wood or metal cabinet which provides a clear space 18" wide x 15 $\frac{3}{4}$ " high x 11" deep. Both St. Charles and Geneva have steel cabinets made especially for the unit. Trade-Wind does not supply the cabinet.

## DEMAND THESE ALL-IMPORTANT ADVANTAGES WHICH ONLY TRADE-WIND GIVES YOU

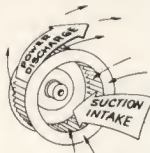


### Ceiling Ventilation

Because heat rises, the logical place to catch it is at the ceiling before it can spread. A unit installed in a wall, for example, will not draw down the unwanted hot air trapped at the ceiling.

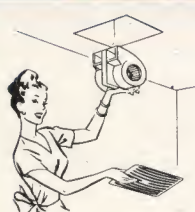
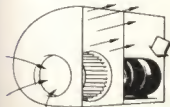
### Power Discharge

Power discharge through a squirrel cage blower, unlike blade-type fans, forces out air under pressure. This is the recognized type of blower used in air conditioning systems, forced air furnaces and for industrial uses.



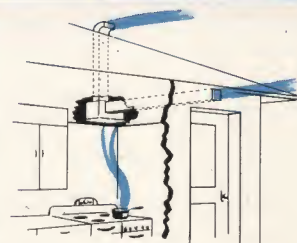
### Isolated Motor

Because of its patented design, only Trade-Wind locates the motor entirely outside the greasy air stream. Because the motor stays clean, every Trade-Wind Clipper is guaranteed for 5 years.



### Easy to Clean

Both the grille and the blower unit are easily and quickly removed for cleaning or service. No tools are needed. Note that the entire unit is hidden in the ceiling and only the attractive grille is seen.

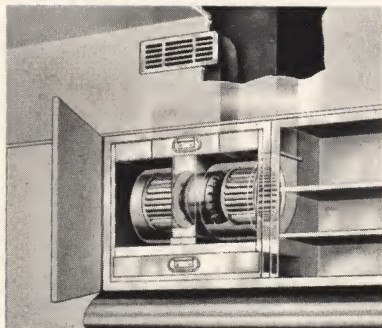


### Inexpensive to Install

This composite sketch shows how a Trade-Wind installed in the ceiling, can be vented up through the roof or out a side wall.

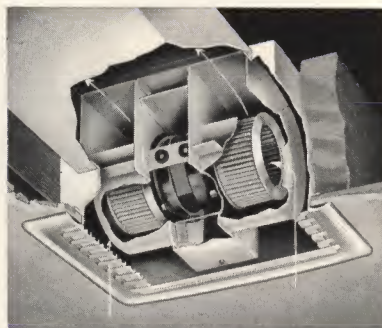


There's a **TRADE-WIND** Clipper for every type of small room



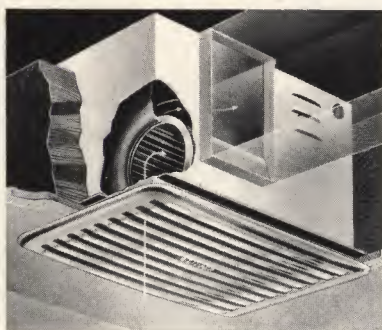
#### No. 3501 SUPER CLIPPER

For installation in cabinet over stove. Dual power blowers discharge 600 cu. ft. per minute. 1/15 H.P. radio shielded motor. Unit is equipped with ceiling and stove inlets and 2 cleanable metal filters. 2-speed control switch. With fold-under hood \$135. Without hood \$90.



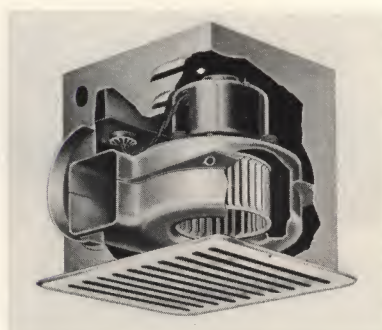
#### No. 2501 FOR AVERAGE KITCHENS

This popular ceiling model has dual power blowers which develop 425 cu. ft. per minute — ample power to keep kitchens, game rooms and larger laundries clean and cool and free from odors. 2-speed control switch. Radio shielded 1/20 H.P. motor. \$60.



#### No. 1301 and 1401 FOR SMALL KITCHENS

Single power blower models for ceiling installation. Model 1301 for horizontal discharge; 1401 for vertical discharge. Recommended for kitchens of less than 1000 cu. ft.; also laundries, dens and other small rooms. Develop 275 cu. ft. per minute. 1/30 H.P. radio shielded motor. \$33.75.



#### No. 1201 FOR BATHROOM

Designed especially to remove the steam and lingering dampness and other unsanitary odors from bathrooms. Eliminates foggy mirrors and damp walls. Mounts in ceiling. 1/75 H.P. radio shielded motor. Single power blower discharges 100 cu. ft. of air per minute. \$25.

**3 EASY WAYS  
TO BE SURE  
YOU GET A  
TRADE-WIND  
CLIPPER**

**1.** Ask your architect or builder to specify the correct size of Trade-Wind Clipper by name and model number. It is listed in Sweet's Catalog File 30-D-1 for his information.

**2.** If you let the job yourself, ask your electrical contractor to install only a Trade-Wind Clipper.

**3.** If you do not know where to buy a Trade-Wind Clipper in your community, write us at the factory and we will give you the name of the nearest dealer. There are Trade-Wind representatives in all principal cities. Stocks are carried by many electrical jobbers.

**TRADE-WIND**  
**MOTORFANS, INC.**

5725 S. MAIN STREET, LOS ANGELES 37, CALIFORNIA



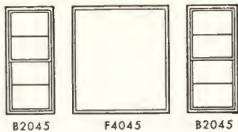
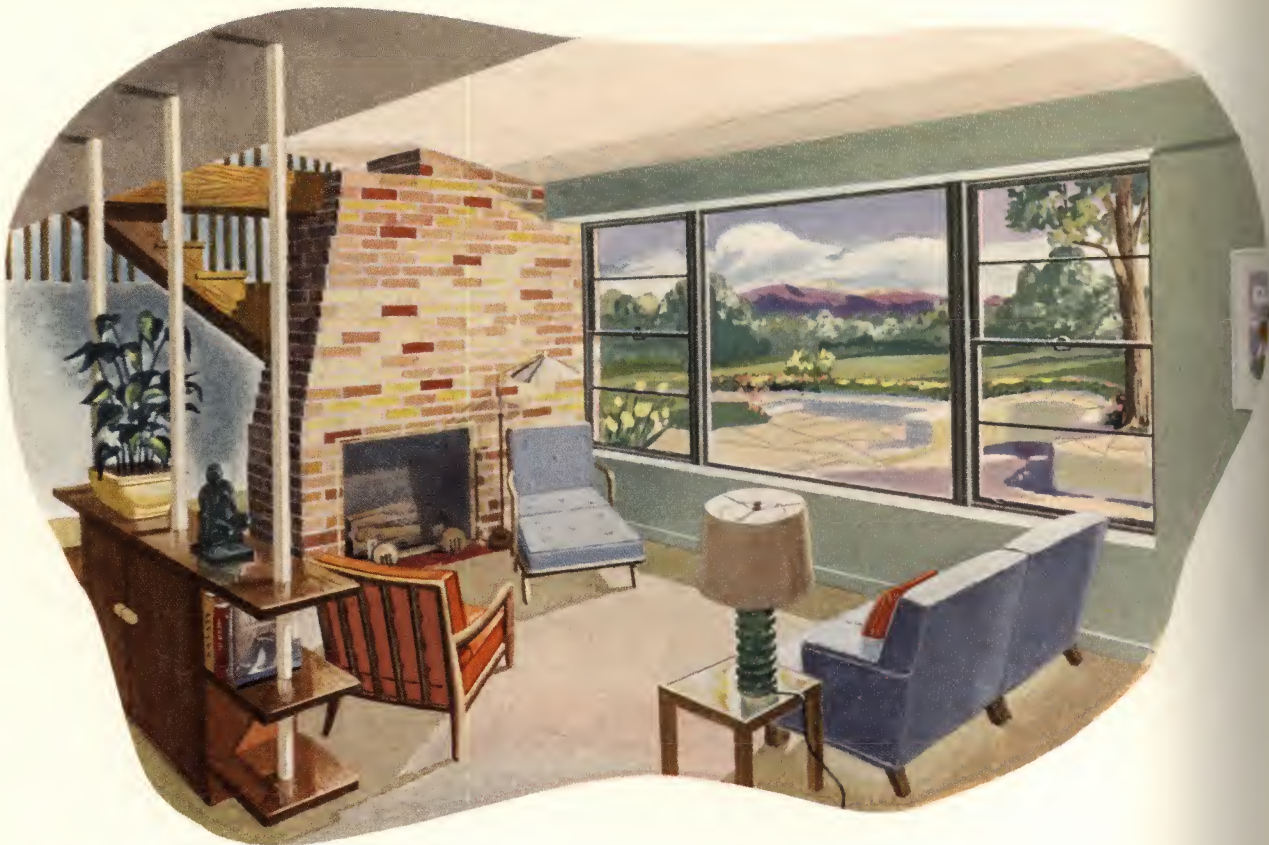
# Truscon



RESIDENTIAL STEEL WINDOWS

DOUBLE-HUNG AND CASEMENT TYPES





*Trusco* **RESIDENTIAL**

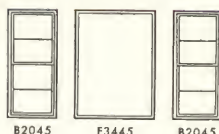
The Trusco Residential Double-Hung Steel Window incorporates many special features not found in other windows of similar type or function. Of major importance is the fact that the sash members are of tubular construction. This adds greatly to the strength, durability and finished appearance of the window. Weights and cords are absent from this window. Operation is controlled by spring balances equipped with tapes of Enduro stainless steel. Quiet, positive action and long, trouble-free life are assured.

Screening is easily and attractively accomplished through the inclusion of a rebate on the exterior of the window frame, which permits flush installation of screens and combination screen and storm sash units.

The low cost is reflected not only in the window price but in all accessories. Frames are prepared to receive screens and storm sash of the simplest and most economical type. Shade, drapery, curtain or venetian blind fixtures, of standard types, are easily attached to the interior side.

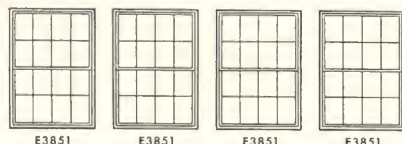


# Features



## Double Hung STEEL WINDOWS

SERIES 138



**FOR DURABILITY.** Truscon Steel Windows have a reputation for proved durability. The skill and experience which produced the design and construction for windows in such famous structures as the Empire State, Marshall Field, Rockefeller Center and U. S. Department of Commerce buildings is the same skill and experience that goes into the design and construction of Truscon's Residential Double-Hung Steel Windows. The window is electro-galvanized, Bonderized and given a baked-on prime coat of paint.

**FOR FINGERTIP CONTROL.** Even a child, using only her fingertips, can raise or lower Truscon Double-Hung Steel Windows with ease. Precision manufacturing methods and the motor-spring type spring balances with tapes of stainless steel make this possible.

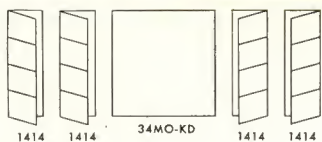
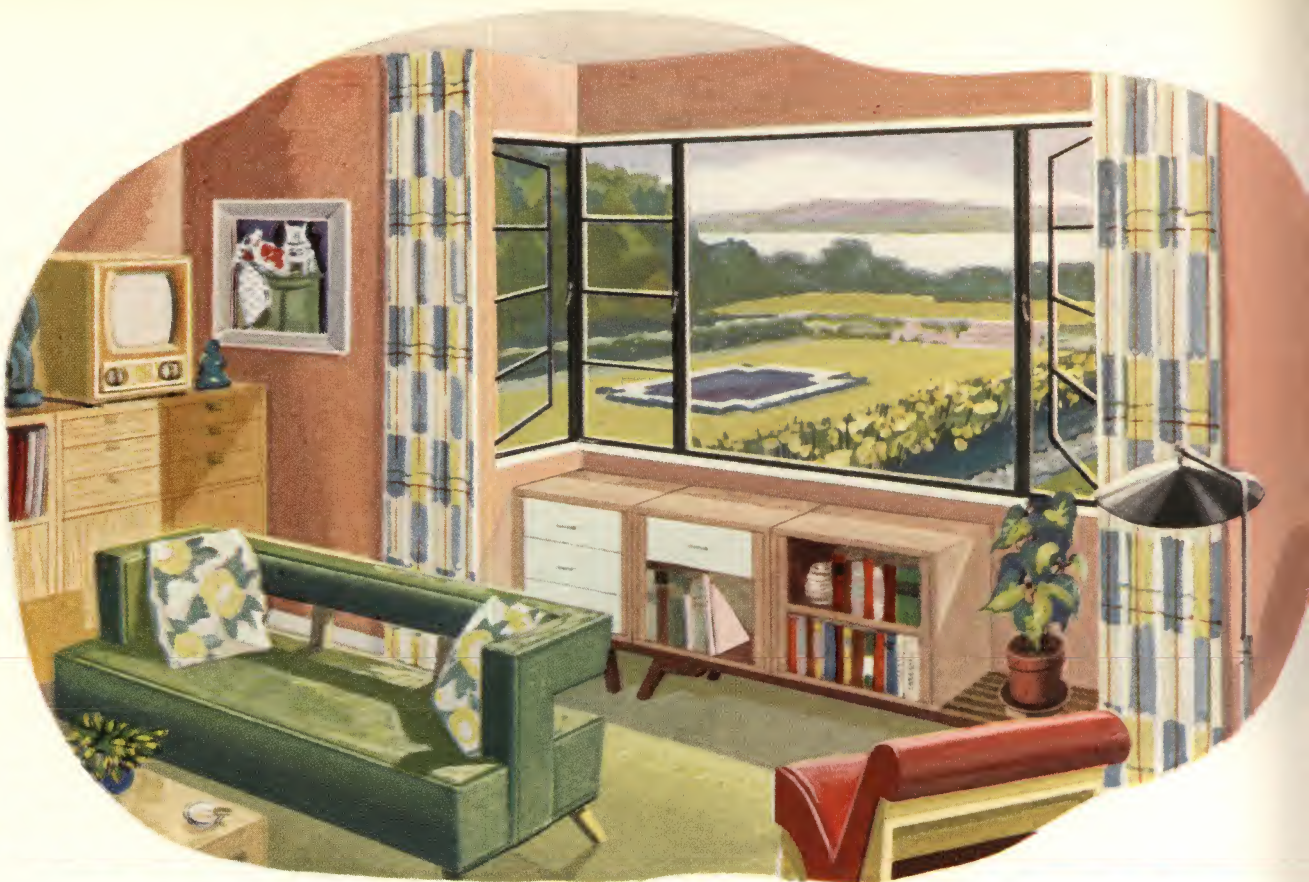
**WON'T RATTLE, WARP, STICK, ROT.** Open or closed, these precision-made windows never rattle. And because they are of STEEL, they cannot warp, swell or shrink.

**FOR SMART APPEARANCE.** The trim, slim lines of Truscon Residential Double-Hung Windows produce a cleancut modern beauty that adds distinction to any building. The slender frame and muntin bars provide a minimum of obstruction and permit more light. Moreover, their beauty is permanent, because these windows are made of STEEL.

**WEATHER-TIGHT—SAVES FUEL.** Snug fit, and built-in stainless steel weather-stripping make these windows weather-tight. They lock the weather OUT . . . and help to cut heating costs.

**THEY COST NO MORE.** Most amazing of all, Truscon Double-Hung Steel Windows cost no more to buy and install than ordinary windows. Completely factory assembled and delivered ready for installation, their cost will fit the budgets of the most modestly priced homes. They can be economically installed. And, because of their long life, they cost LESS.





*Truscon* **RESIDENTIAL STEEL**

Just ask your architect or builder about Truscon Residence Casements. Famous for over a quarter of a century, these windows offer the ultimate in trim, modern beauty combined with the durability of steel. Like the double-hung windows, Truscon Casements will thrill you with their noiseless, fingertip operation. They'll please you with their permanence and safety. The screens and insulating windows for these casements are produced in exclusive Truscon design that matches the unexcelled quality of the Truscon Casement Window itself.

Yes, it may be hard to believe — but it's true! The cost of these windows will not make you stretch your budget a penny! And now, just think what you get!

Windows with all the strength, durability and fireproof qualities of steel! A window whose smart, trim, modern lines offer beauty that is permanent. A window that will never rattle or stick because steel will not shrink or warp. A window that locks out unpleasant weather and saves you money by cutting heating bills. These are **PLUS VALUES — at NO EXTRA COST!**

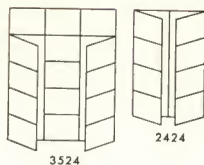


# Features

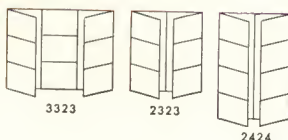
**WIDE SWINGING VENTS PERMIT CONTROLLED VENTILATION.** In rooms where windows are opened and closed frequently or where ventilation needs are great and varied, Truscon Residence Steel Casements fill a utilitarian need, in addition to being decorative. Clean, bright, air-controlled kitchens are possible and a slight, fingertip touch adjusts window opening. Side hinged casements can be so opened that they invite or retard the flow of air. High, small or unusually placed window openings all become more useful and attractive when fitted with Steel Casements.

**BEAUTIFUL PICTURE WINDOWS FOR THE HOME.** Windows either add to or detract from the appearance of your home. Steel Casements, due to their flexibility in design and arrangement, add a welcoming charm that is irresistible. Their wide swinging vents, their pleasing glass panels, seem to invite you to stop and see the beauty that lies within. Their slender and graceful lines offer practically no barrier to light. They let the glorious sunshine and beautiful vistas in. Steel Casements harmonize with all styles of architecture.

**SLENDER LINES ADMIT MORE LIGHT AND VISION.** Look at those smart, trim lines! There's a note of modern beauty here that can't be missed. Yes — and the beauty of these Truscon Casements is permanent because they are made of steel. Take note of the larger glass area. Imagine how their streamlined beauty and grace will adapt themselves perfectly to your personal plans for decorating your new home. It's fun to plan each room . . . because into each will go some element of your own personality and good taste.



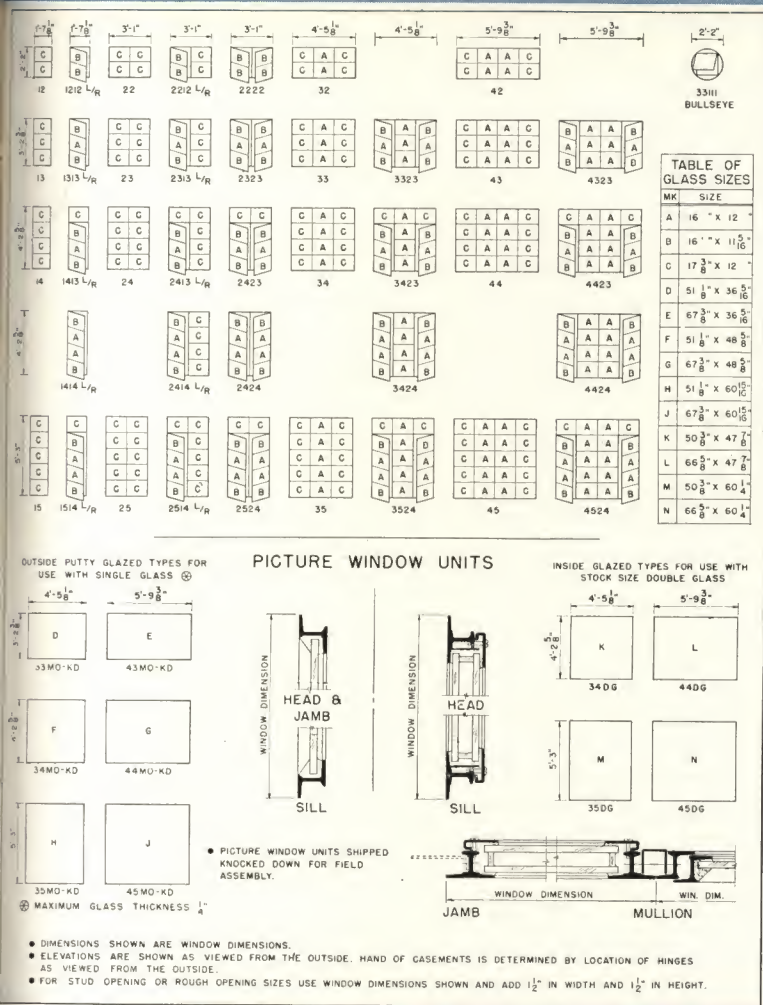
## Casements SERIES 5









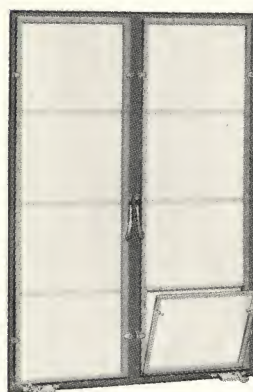


## SCREENS AND STORM SASH FOR TRUSCON STEEL CASEMENTS

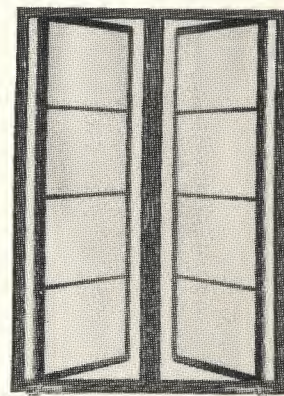
Truscon Casement Screens are easily installed on the inside! They are out of the weather and remain clean and protected. Windows may be opened and closed without removing the screen.

Truscon Casement Storm Sash are quickly and conveniently installed on the inside, too. They fit snug and tight, forming an effective air seal against the transmission of heat or cold.

Both Truscon Casement Screens and Storm Sash are made under direct Truscon supervision, in a special Truscon factory devoted exclusively to this type of manufacture. Standardized production assures precision and economy.



Casement with Storm Sash



Casement with Screens

## TYPES AND SIZES FOR STEEL CASEMENTS

## RESIDENTIAL CONSTRUCTION

requirements of modern construction. It is easy to erect and work over, yet is capable of being formed into unusual shapes for arches, coves, plaster fireplaces, and curved walls and stairways. Metal Lath actually grips the plaster, locking it around the strands of steel, which form the openings, holding the plaster in place, even though subjected to violent shocks and vibration. It is the ideal plaster base to give both crack and fire resistance. Corner Beads and Cornerite give maximum protection to outside and inside plaster corners.

### OPEN TRUSS STEEL JOISTS FOR FLOORS

Truscon Open Truss Steel Joists provide the most permanent and efficient type of floor construction and there are many advantages to be derived from their inclusion in residential construction. They are available in two types: "O-T" Open Truss Steel Joists and "O-T" Open Truss Nailer Joists. The former is used when concrete floors and maximum benefits of fire resistance are of prime importance. However, wood nailing screeds can be incorporated in cases where

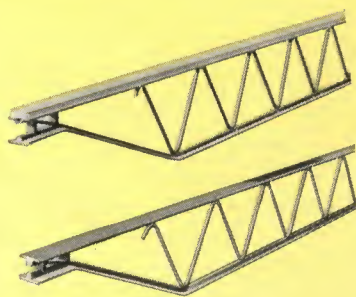
wood finish floors are desired. Nailer Joists are provided with a wood nailing strip securely attached to the top chord of the joist, and wood flooring is nailed directly to this strip.

### REINFORCING FOR CONCRETE

Truscon manufactures Welded Wire Fabric and Reinforcing Bars which are used to reinforce and protect concrete slabs in driveways, foundations and floors. This material, properly installed before pouring the concrete, will strengthen concrete construction and guard against cracks, premature obsolescence and costly repairs.

"O-T" OPEN TRUSS STEEL JOISTS

"O-T" OPEN TRUSS STEEL JOISTS



CONCRETE REINFORCING BARS

WELDED WIRE FABRIC





# Features

## SWING DOORS AND FRAMES SERIES 50

**THEY COST NO MORE.** Truscon Series 50 Steel Doors and Frames are designed to compete in cost with doors of any other material, low cost is achieved through the economies of mass production. Additional construction savings are made possible by ease and speed of installation which can be accomplished in less than one-third the time required for "on the job assembled" types.

**STANDARD SIZES.** Doors are of  $1\frac{3}{8}$ " thickness and are available in a pleasing vertical flush panel design, in five width dimensions from 1'-8" to 3'-0". A choice of either  $4\frac{1}{4}$ " or  $6\frac{1}{4}$ " depth frames are offered.

**ATTRACTIVE HARDWARE.** Four types of Yale and Towne type "D" brass locksets are available to meet all normal architectural requirements.

## SLIDING CLOSET DOORS SERIES 50A

**SAVE SPACE.** These modern Sliding Closet Doors, Series 50A provide total closet accessibility, more usable floor space and materially reduce construction costs.

**ECONOMICAL.** Outstanding economy is obtained through the elimination of material and labor required, (1) to construct and plaster approximately one-half the area occupied by the full width of the Sliding Door opening, and (2) to furnish and install frame, swing door and hardware for same.

**HIGH QUALITY.** Sliding Closet Doors are precision made of prime quality cold-rolled sheets heavily reinforced for rigidity, thus insuring perfect fit and permanent trouble-free operation. Each door is equipped with two ball bearing rollers, dense felt top guides and rubber bumpers at jambs to provide smooth, quiet operation. Finger pulls are fitted into each panel at the factory.

**STANDARD SIZES.** Units are available in two standard sizes 4'-0" by 6'-7 $\frac{3}{4}$ " and 5'-0" by 6'-7 $\frac{3}{4}$ ".

## Truscon RESIDENTIAL STEEL

# Doors

Truscon Residential Steel Interior Swing Doors and Frames and Sliding Closet Doors are attractive in design. Handsomely modern in appearance. Precision engineered and manufactured, these doors assure smooth, quiet and trouble-free operation. Outstanding economy of labor and material for installation is a major feature. Steel construction protects against warping, shrinking or sagging during the life of the structure. Efficiency of space and operating convenience are special advantages of the sliding closet doors. Truscon Residential Interior Doors are steel . . . are strong . . . are sensible.



TRUSCON STEEL COMPANY Main Office and Plant Youngstown 1, Ohio

Subsidiary of REPUBLIC STEEL CORPORATION





*It's so*

**IMPORTANT...**



# DON'T LEAVE YOUR HEATING TO CHANCE!

## *To be right, heating must be planned*

No longer do we build a house and then look for a means of keeping it warm. Engineering skill and just plain common sense have taught us to do just the opposite! Today we take the many factors into consideration that affect the heating of our homes and apply them to our basic building plans. Thus, the heating system, as an integral part of our home, functions more efficiently, more dependably, and more economically. Better living through better planning—that's what we mean by planned heating.

## *...planned for the type of home you have in mind*

Will your home have two stories? Or will it ramble? Is it going to have a basement? If so, how large? What about picture windows, stair wells, etc.? All these, and more, are factors your qualified heating dealer must take into consideration before you make your choice.

## *...planned for the size of home you have in mind*

The selection of a heating system, and of a particular unit, depends largely upon the heating job called for in the years ahead. A poor selection will result in either an overworked unit or one that is out of proportion to what you need. The inevitable outcome is needless expense or less heating satisfaction for the winters to come.

## *...planned for the locality in which you'll build*

Climate will have to be taken into consideration as it will affect heat loss, length of heating season, and temperature ranges. Moreover, comparative costs of gas, oil and coal are determined by local availability. Your qualified heating dealer can advise you on these points to help you make a wise choice.

## *...planned for the price you have in mind*

The cost of your heating system is almost entirely determined by all the other factors mentioned on this page. Keep in mind that the best advice you have heard is to install a quality unit. Heating is an investment, not a bargain basement item. A quality unit will pay for itself again and again over the years.

## *...planned for the kind of heating you prefer*

Once you have taken all the above factors into consideration, you are ready to make your choice—*tempering it with any strong personal preferences* you may have. Remember—you expect to live with your heating system for many years—so make certain it's what you really want! If you have any strong likes or dislikes, talk them over with your qualified heating dealer and your builder. Careful pre-planning can overcome many obstacles. Above all—get the right kind of installation . . . get the right heating unit . . . and all the joy and comfort of modern, planned heating will be yours in the many, pleasant years ahead.



LOOK FOR WATERBURY DESIGNED HEATING WHEREVER BETTER HOMES ARE BUILT



## *...first let's consider the simplest of modern heating systems*

**T**he gravity warm air method of home heating is by far the least expensive to install and offers a real economy of operation. However, this type of installation is practical only in homes that meet the following qualifications.

To begin with, the general layout of rooms must be fairly compact with the furnace and chimney located near the center of the basement. The size of the rooms should be average to small and should not number more than 4 to 5 on the first floor.

If your plans agree with those general specifications, you can go ahead with the installation if you so choose. Gravity warm air heat is designed especially for your type of home.

The advantages of gravity heating systems are self-evident. The relative compactness of space allows a simple, extremely economical method of introducing warm air into the rooms above the heating plant. The lighter, heated air flows upward, out of the registers and into the rooms. Heavier, room temperature air flows downward through the grills to be heated. The result is an automatic circulation of air. By the same token, the simplicity of the system makes for an economical installation, thus cutting the original cost to a great extent.

Before you go ahead with the installation of a gravity system, take the matter up with your authorized heating dealer. He'll look over your plans and tell you whether or not this type of heating would be practical for your home. It is important that you take this precaution, because the very simplicity of the system restricts it to just those homes meeting the requirements stated above. A large home, or one in which the rooms are spread out over an unusually wide area, cannot be heated adequately by a gravity installation. It would be wiser, and more economical in the long run to select a type of heating from those discussed on the following pages.

For a prompt and courteous consideration of your heating problems, call your nearest authorized Waterbury dealer.



Beautiful design—faultless performance—proven dependability... the Waterbury gravity furnace. Models for gas, oil and coal.

## GRAVITY WARM-AIR HEAT



MORE THAN 43 YEARS OF PLANNED HOME HEATING BY WATERBURY







The Waterbury gas or oil fired DownFlo is designed especially for floor panel heat. Models available for the smallest perimeter installation on up to the largest panel heated homes.

... or perhaps your plans call for  
the latest in heating systems

A panel heated home presents an entirely different conception of heating comfort. Because it is something different, it has become a subject of great controversy wherever heating is discussed. A look at what it is, and how it works will help you to decide for yourself—with the aid of a good heating engineer—whether or not it is suitable for your new home.

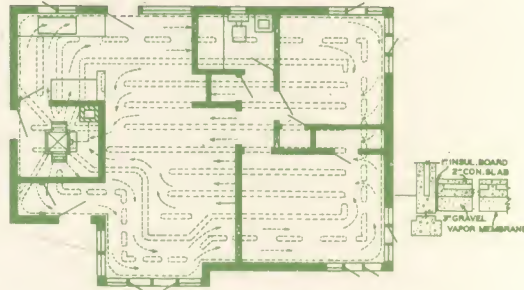


DIAGRAM OF PANEL INSTALLATION

## PANEL HEAT

### What Takes Place in a Panel System

Warm air is circulated through ducts in floor (as shown in this particular diagram) or in ceiling, giving uniform radiation of heat rays to all objects and occupants in the room. This radiation effect makes possible a feeling of comfort at lower than ordinary temperatures. The state of comfort without obvious heat is the closest approach yet to perfect indoor comfort, the final goal of warm air heating research engineers. However, some people like to feel "extra warm," and sometimes sharp outdoor temperature changes call for additional heat immediately. For these requirements—plus the advantages of humidified, filtered air and summer circulation—many heating engineers recommend that warm air registers be built into the panel. Direct warm air heating can be introduced into any room simply by opening the register!

Panel heat has proven itself ideal for the slab type or basementless home. Though the adoption of panel heat *does* add to the cost of construction of your home, it provides uniform heat for all parts of the house with an economical fuel consumption.



Let your Authorized Waterbury Dealer help you by making a heating layout for your new home. He is glad to be of service.



LOOK FOR WATERBURY DESIGNED HEATING WHEREVER BETTER HOMES ARE BUILT



...for your modern basementless home



The smaller Waterbury Down-Flo units are designed especially for perimeter heating.

Never still is perimeter heat, becoming more and more popular with the builders of small, basementless homes. By laying warm air pipes in the floor along the outer wall of the home, a uniform floor temperature is maintained. Registers in each room, leading off the pipe, provide gently circulated, heated air all through the house. This system is possible only in small homes built on slabs.

If you have decided upon panel or perimeter heat, the only caution necessary is to make sure you obtain the services of a qualified heating supplier. If he agrees to make the installation, you can rest assured that there is sufficient heating research data and engineering facts behind his decision to guarantee real comfort in the future, the kind of comfort that can come only from modern, designed heating.

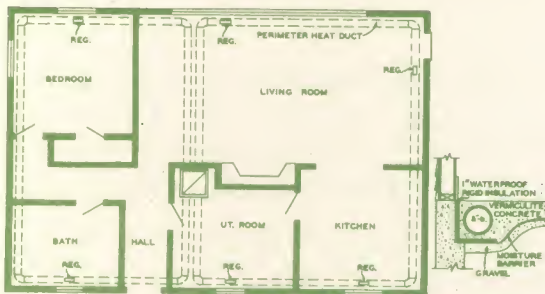


DIAGRAM OF PERIMETER INSTALLATION

### These Modern Types of Heating, Properly Engineered, are Successful

Undoubtedly, shortly after the first moment you decided to build, the subject of panel or perimeter heat entered the picture. Since then, the idea (1) has been accepted wholeheartedly by all members of the family (2) was rejected on the spot (3) has ever since been subjected to great controversy, getting criticism and praise from every direction.

First of all, panel heat, though not new, is different—out of the ordinary. It presents some unknown factors to the average citizen. Add to that the claims of skeptics, now developed into full-grown rumors, and you have enough doubts to discourage all but the most imaginative of home builders. The fact of the matter is that properly installed panel heat has proven successful, and in certain types of homes will provide many advantages not offered by other systems.

For the latest facts on panel and perimeter heat—see your local Waterbury dealer—his advice will help you avoid mistakes.



MORE THAN 43 YEARS OF PLANNED HOME HEATING BY WATERBURY







The Waterbury Air Conditioner for perfection in modern home heating. Models for gas, oil and coal.

*... here's heating preferred by  
the majority of today's planners*

Suppose the plans for your home or your own personal preferences have eliminated both gravity and panel heating. Then you probably are looking for the features found in a forced warm air system. This is the most popular type of heating used in homes today. It is easily adaptable to homes of all sizes—large, average and small. Where rooms are large or are to be spread out over an unusually wide area, forced warm air is especially suitable. An explanation of this system, how it operates and what it can accomplish, will serve to point out its particular advantages and enable you to apply its principles to your own particular situation. You will then see why this method of modern home heating has become the most popular in recent years.

## FORCED-AIR HEAT

### What Takes Place in a Forced Air System

Air movement in this type of heating system is controlled by a blower mounted within the casing of the heating unit. Room temperature air is first drawn into the unit and is moved through filters which remove impurities such as dust particles and lint. It is then heated to the proper temperature. As the air leaves the unit, the proper amount of moisture is added, giving it an out-of-doors freshness. The now heated, filtered, and humidified air is forced up through the ducts, expelled from the registers, and moved gently through the rooms. This constantly circulating air provides a freshness and remarkably uniform heat throughout your home—and throughout the heating season. Only through the use of a forced warm air heating system can you secure the advantages, in one package, of humidification, filtration, and circulation. Yes—even making possible the future addition of equipment for automatic cooling, bacteria and pollen elimination—truly the ultimate in indoor climate control!



Your factory-trained Authorized Waterbury Dealer has been helping home builders for many years. May he be of service to you?



LOOK FOR WATERBURY DESIGNED HEATING WHEREVER BETTER HOMES ARE BUILT



*... it's often described as "the ultimate  
in modern home heating"*

**P**erhaps your home will not have a basement, and you have decided against installing panel or perimeter heat. What then? The answer is that you can still have forced warm air heat without sacrificing valuable floor space in order to accommodate a large conventional air conditioning type unit. A hi-boy model air conditioner, such as the one shown at the upper right, is designed especially for basementless homes or homes with part basements where space economy is to be desired. In this type of unit, the blower compartment is located below the unit proper allowing the entire heating plant to be fitted into a surprisingly small amount of floor space—either in the basement or the utility room.



*The Waterbury Hi-Boy.  
Compact for space economy—  
a complete air conditioner—  
models for gas and oil.*

## **Where to Find the Right Heating Unit for Your Home**

Once you have decided upon the type of heating you will have in your new home, you are ready to have the system drawn into your plans. Here, your nearest authorized Waterbury dealer can be of great assistance. His long experience in modern home heating; his particular application of knowledge and skill on every installation; and careful factory training has earned for him the right to represent Waterbury in your area. Ask him for complete information about the Waterbury line—or, better yet, let him show you, firsthand, the complete line of Waterbury units. He has furnaces and air conditioners designed especially for the type of heating you want in your home. Wherever you live—whatever your heating needs, investigate Waterbury first. It's your assurance of modern home heating at its very best.

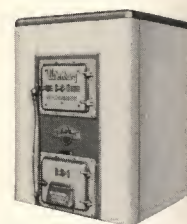
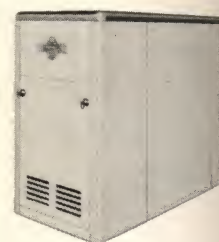
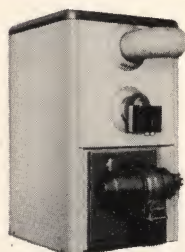
## **FORCED-AIR HEAT**



**MORE THAN 43 YEARS OF PLANNED HOME HEATING BY WATERBURY**







# Designed Heating BY Waterbury

Waterbury, in their complete line of modern home heating equipment, offers to you the assurance of making the one right selection of a heating unit for your home. You can make that all-important choice and be secure in the knowledge that you will enjoy efficient, dependable, and economical home heating. From Waterbury you gain the confidence of quality. If you don't know the name of your Authorized Waterbury dealer, just write to us. We'll supply you with all the information you need.

*Remember!*

IT'S WHAT'S UNDER THE CASING THAT COUNTS!

*The* **Waterman-Waterbury Co.**  
1147 JACKSON STREET, N. E. • MINNEAPOLIS 13, MINN.







# How to get your dream kitchen - and save



*Youngstown Kitchens*

BY MULLINS





*Youngstown Kitchens*  
BY MULLINS





## Got a yen for a new kitchen ?

A sleek, new streamlined kitchen . . . all in gleaming steel, complete with wall cabinets, base cabinets and a stunning cabinet sink?

You've come to the right place!

For *you* can have a Youngstown Kitchen beauty fitted to any size or shape of room, in a new house or old, without fuss or costly remodeling, for practically a song!

Gorgeous Youngstown units are *standardized* and *mass-produced* in a whole range of sizes and styles.

Pick the units *you* want. Combine them any way you wish. Lo . . . there's your dream kitchen.

Honestly now, had you even guessed it could be so simple? Youngstown units are produced by the world's largest makers of steel kitchens . . . people who know *what* you want in a kitchen and *how* you want it, from the word "go." Look where you will, you won't beat these gorgeous, step-saving huskies for quality, design, price, or fast, easy arranging.

Youngstown Kitchens are available on easy budget terms with low down payment and moderate monthly payments. Financing through dealer or bank.

So settle back and read on. Here's where you and your budget meet your heart's-desire kitchen.



# Select the right Youngstown Kitchenaid,

LET'S START at the spot where you do two-thirds of your kitchen work . . . the *sink*! Begin your dream scheme by selecting the Youngstown Kitchenaid cabinet sink that best fits your space and needs.

Look at the array of styles . . . real wife-savers, designed by experts to make your sink chores lighter, brighter the lifelong day.

Look at the dazzling finish! Every Kitchenaid is durable, white-enameled steel *with a one-piece, acid-resisting, porcelain-enamel top*.

Look at the speedy rinse spray, the swinging mixing-faucet, the acres of working room, the beautiful chrome-



**KITCHENAIDER 66" TWIN.** Picture this gleaming beauty in *your* kitchen. Features gorgeous, one-piece, porcelain-enamel top; double bowls; recessed soap dish; double, fluted drainboards. Swinging mixing-faucet, rinse spray, coved back-splasher. Fully outfitted under-cabinet has sliding shelf for bulky articles. Removable cutting board, two large

compartments, removable stamped-steel soap-box rack; rubber-covered drain basket; five drawers on brass runners, including cutlery drawer. Fully sound-insulated. Chrome hardware. Width, 66"; height, 36"; depth, 24". (Shown with Mullinaider electric garbage disposer, fits all Kitchenaiders as optional equipment.)



plated hardware and the big, big storage space you get in *every* model.

And look at all the other work-saving details described on the following pages. Trust Youngstown to wrap up a gem that delivers dollar-for-dollar value from base to back-splasher! In fact, if your budget isn't up to par, you can start your Youngstown Kitchen with a Kitchenaid and add wall and base cabinets later.



*Youngstown Kitchens*

BY MULLINS



**KITCHENAIDER 42" TWIN.** Two bowls, one *extra deep* (a full 11") available on either right or left side . . . handy for light laundry. Sliding, removable, fluted drainboard covers either bowl. Other features: one-piece, acid-resisting, porcelain-enamel top; swinging mixing-faucet; recessed soap dish. Giant compartment in base takes many bulky items. Chrome hardware. Fully sound-insulated, doors close *quietly*. Width, 42"; height, 36" from floor to bowl rim; 24" front to back. Spray may be added.



**KITCHENAIDER 42" DELUXE.** Ideal for a limited space. Features: one-piece, acid-resisting, porcelain-enamel top, swinging mixing-faucet, rinse spray, coved back-splasher, recessed soap dish. Single bowl; large, fluted drainboard, on either left or right hand side. Two large compartments for bulky items. Two wide, deep drawers on brass runners (one for cutlery). Fully sound-insulated. Torpedo catches on doors. Chrome hardware. Width, 42"; height, 36" from floor to bowl rim; 24" front to back. Wonderful storage space!

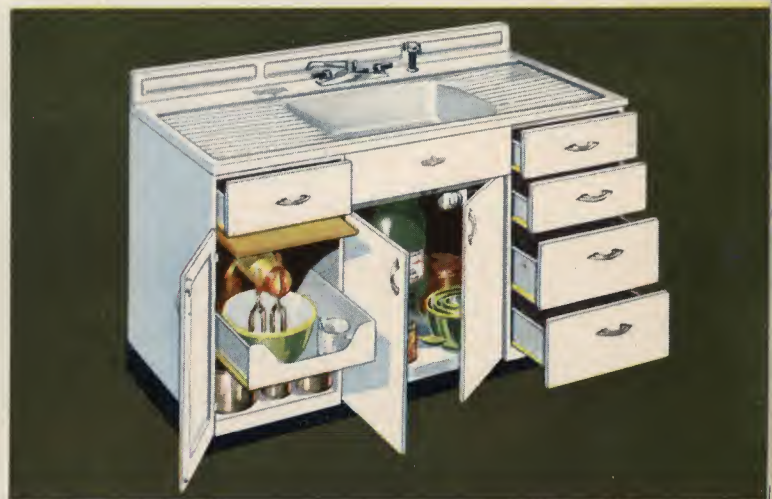
(Available also as *Standard Model*)



**KITCHENAIDER 48" TWIN.** Features *extra deep* (a full 11") second bowl, on left. Sliding, removable drainboard covers either bowl. Also: one-piece, acid-resisting, porcelain-enamel top, swinging mixing-faucet, rinse spray, coved back-splasher, recessed soap dish. Three big compartments; fitted drawer for cutlery. Sliding shelf for heavy articles, stamped-steel soap-box rack on undercabinet door. Fully sound-insulated. Drain basket included. Chrome hardware. Width, 48"; height, 36" from floor to bowl rim; 24" front to back.



**KITCHENAIDER 54" STANDARD.** Spacious one-piece top is made in finest, acid-resisting porcelain-enamel. Two roomy drawers run on brass runners, one large compartment. Deep, wide, no-splash drainboard; four-inch crumb-cup strainer; four-inch back-splasher; swinging mixing-faucet. Recessed toe and knee space. Torpedo door catches. Width, 54"; height, 36" from floor to bowl rim; 24" front to back.



**KITCHENAIDER 54" DELUXE.** See the working area each side of the big bowl! Other features: one-piece, acid-resisting, porcelain-enamel top; wide, fluted drainboards; swinging mixing-faucet, rinse spray, coved back-splasher, recessed soap dish. Undercabinet has five drawers on brass runners (one for cutlery), two compartments, sliding shelf, removable cutting board, stamped-steel soap-box rack. Width, 54"; height, 36" from floor to bowl rim; 24" front to back.



# Kitchenaid features that bring

## BANISH GARBAGE FOREVER

Think of it!

No more garbage! No more messy garbage can, with all its evil-smelling, disease-spreading food wastes!

You keep your kitchen constantly clean with the new Mullinaider electric garbage disposer . . . because all food wastes are shredded by the Mullinaider and whisked away while they are still fresh, *before they have a chance to become garbage.*

Tucked away under your Kitchenaid cabinet sink, the Mullinaider is always ready to go to work, smoothly and efficiently. Backed by Youngstown, the world's largest makers of steel kitchens, you know the Mullinaider *has* to be the best!

And how easy it is to eliminate food waste with the Mullinaider. All you do is: 1. Turn on cold water; 2. Flip Mullinaider switch; 3. Scrape food waste down drain opening. Zip! It's gone!

# Mullinaider

TRADE MARK

ELECTRIC GARBAGE DISPOSER



1

Turn on cold water

2

Flip Mullinaider switch



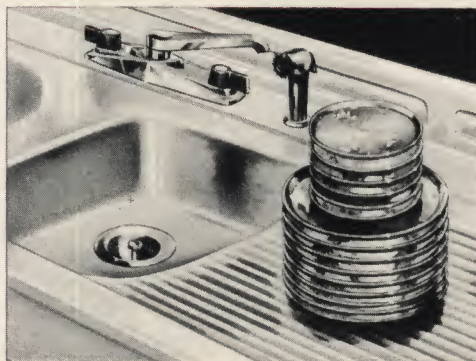
3

Scrape food waste down drain opening



Be sure to ask your dealer for free Mullinaider demonstration in your home

## Wash your dishes this easy straight-line way



**1** GOOD-BYE dishwashing blues. With a Kitchenaid, stack scraped dishes beside the bowl. Room galore on fluted, porcelain-enamel top. Fluted ridges are closely spaced. Glassware, plates set evenly; no rocking. Kitchenaid tops are as easy to clean as a saucer.



**2** ONE bowl is your dishpan (swinging it is right there with water). Whizz clean . . . pop 'em over to synthetic rubber covered drain basket in second bowl. In second bowl Kitchenaiders, put basket on drain. Now rinse! (All at once, not one at a time)



# our kitchen dream to life



**ONLY YOUNGSTOWN BRINGS YOU SO MUCH!**



**FAUCET ADAPTER** connecting hoses to KitchenAider faucet. Hoses have outside for hoses which are screwed on, or bevel for clamp-on.



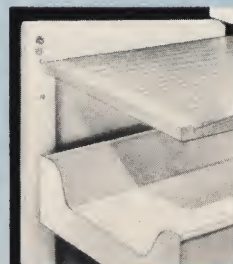
**HURRAY**, a sink you can get near! Deep recessed space for toes and knees lets you stand close. Correct height lets you stand comfortably. Back-strain's out for good.



**AERATOR** attachment for swinging mixing-faucet automatically mixes stream of water from faucet with air bubbles. Gives gentle, non-splash flow from faucet. Builds oceans of suds.



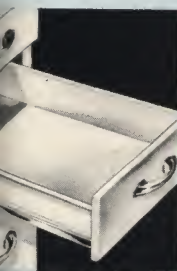
**DRAINBOARD MATS** made of synthetic rubber to prevent clatter and assure safety while you're draining your dishes. Mats are ribbed to allow drainage to flow into the sink.



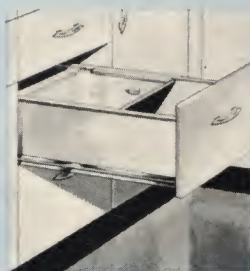
**REMOVABLE** cutting board flips out for sink-top work. Sturdy sliding shelf beneath holds heavy articles like mixers, bowls, flour sack. Saves strenuous bending, reaching, lifting.



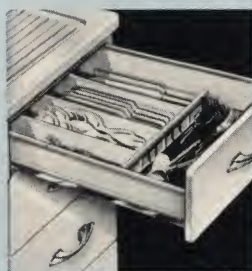
**DRAIN BASKETS** covered with synthetic rubber to protect glassware and dishes. Sturdily constructed in various sizes to fit all sink bowls. Speeds dishwashing, prevents breakage.



**KITCHENAIDER** slide freely, noiseless brass runners. No tugging, jiggling. Construction in steel, built in every way for a lifetime.



**METAL BREAD BOX** fits in 3rd or 4th drawer of 54" deluxe and 66" twin KitchenAider. Also 3rd drawer of 21" and 27" base drawer cabinets. Keeps fresh bread and cake handy. (Sold extra.)



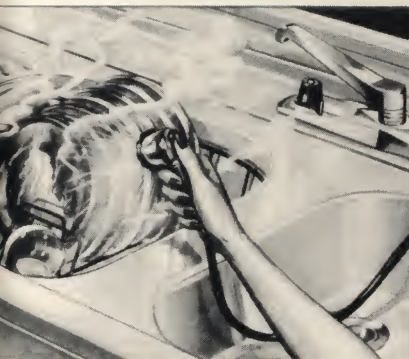
**CUTLERY DRAWER** has adjustable steel dividers for five big, wide compartments. Knives, forks, kitchen utensils are always sorted. Linoleum lining prevents clatter. Fits most KitchenAider models.



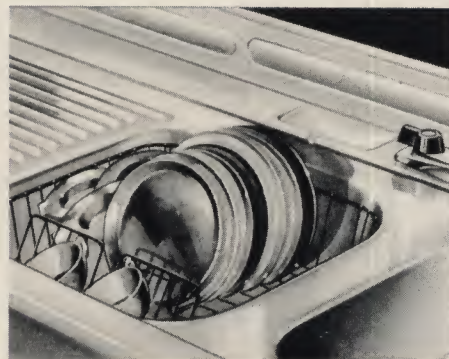
**KITCHENAIDER** automatic rinse spray with flexible hose reaches all of sink top. Hose slides back when spraying's done. Patented trigger key on nozzle. A great aid for all your dishwashing.



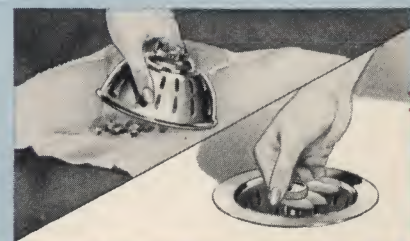
**ONE-PIECE** top is finest acid-resisting porcelain-enamel... sparkling white! Finish swooshes clean with fast once-over of damp cloth. Fluted drains lead into sink bowl. Superb quality you expect from Youngstown.



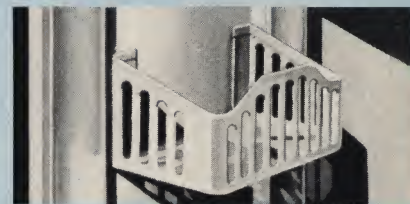
**HANDY** spray attachment just soaks those dishes with hot water... every plate and front and back... in a matter of seconds. Water drains right on out of bowl. (Cold water spray is wonderful for washing vegetables, too.) How simple straight-line dishwashing is!



**4 LEAVE** dishes to drain and dry. Or dry and stack on drainboard. *Dishes are done!* No more frazzled nerves, dishpan wrestling, or hopping hither and yon for a dish at a time. Your wonderful Youngstown KitchenAider cabinet sink zips you through dishes 1095 times a year.



**CRUMB-CUP** strainer closes drain stopper, converts bowl for use as dishpan at simple twist of wrist. Cup catches refuse as bowl drains. Is easily emptied. A wonderful work-saving feature.



**STAMPED-STEEL** soap-box rack... keeps soap flakes on back of undercabinet door... right where you can reach them! Rack lifts off easily for quick cleaning.



# Next, add Youngstown wall cabinets

 *Youngstown Kitchens*  
BY MULLINS

**N**OW WATCH your kitchen begin to shape up. Once you've picked your Youngstown Kitchenaid you merely add matching steel Youngstown wall and base cabinets in whatever arrangement you prefer. It's as easy as that.

Start with the wall cabinets below. They're a housewife's dream . . . big, deep, handsome . . . with wide-swinging doors and easy-to-reach shelves. There's a size and style for every need, every patch of wall, every idle corner. And whatever the size of your kitchen, you can arrange a combination to fit your needs to a "T."

Choose away to your heart's content. Youngstown designers have thought of everything that means a luxurious kitchen. Yet husky, modern Youngstown units practical baby a budget. Wait till your Youngstown dealer shows you the price tags . . . *you'll see!*



**DOUBLE-DOOR WALL CABINET.** Three wonderful compartments. Same satiny-smooth, white-enameled steel as all cabinets. A size for nearly every wall space. Six widths: 18", 21", 24", 27", 30", 36". 36" size (shown) has handy split shelf for tall articles. Others have three regular compartments. All 30" high, 13" front-to-back.



**CORNER CABINET.** Use it where row of wall cabinets turns a corner. Or individually to put awkward corner space to *work*. Three compartments will take 169 dishes without cramming! Back corner easily accessible without stretching. Door swings wide. One size: 30" high and 13" on each side. Note that first three wall cabinet styles are same height.



**SINGLE-DOOR WALL CABINETS.** For space where narrower cabinet is preferred. Three large compartments. Door hinges right or left. All Youngstown wall cabinets have easily reached handles, sure-hold torpedo catches and sound-proofing on doors. Style above, one size only: 15" wide, 30" high, 13" front-to-back. See the capacity!



**DOUBLE-DOOR WALL CABINET.** Special two-compartment model for use over the Kitchenaid, range, or refrigerator. Keeps frequently-used items right where you use them. Five widths: 18", 24", 30", 36". 36" size (shown) has split shelf for tall articles. All 30" high, 13" front-to-back. Here are wall cabinets that really *are* cabinets.





A "SMALL-HOUSE" kitchen with real "big-kitchen" convenience. Trim and shipshape, it's right after a man's heart, too. Its arrangement fits a 54" floor space. And it illustrates, incidentally, how neatly you can place Youngstown units along a wall-without a window. Don't give it a second's thought if the windows are awkwardly placed in the kitchen you're modernizing.



↑ **THIS SLICK** grouping in a 66" space is not only a complete kitchen in itself; you can make it the basis for a *larger* Youngstown Kitchen later on. Just add more wall and base cabinets as your budget grows. The Youngstown creation below features a 66" twin-bowl Kitchenaid, rolling-door cabinet, what-not shelves. Modern all-steel kitchens like these boost the resale value of your house. ↓





# Then add gorgeous Youngstown base cabinets

Walls all set . . . ? Fine!

Now for your Youngstown base cabinets . . . still in matching white-enameled steel . . . still designed as only a Youngstown unit can be.

Look at the styles . . . every one rarin' to help you keep kitchen supplies in their place . . . every one with the storage space to do it. And every one with a wide, sleek work surface at the right height for working ease and comfort the livelong day.

String them alongside each other, starting at your Kitchenaid. Run them down along that empty wall. It's no problem at all to make a dream come true with top-quality Youngstown equipment . . . even that pet plan you've been wanting. And your finished kitchen will have a luxurious "custom" look that will last the life of your house. Yes, indeed, if you want a stunning kitchen, you want a Youngstown Kitchen!



**DOUBLE-DOOR BASE CABINET.** Two deep compartments for pots and pans. Thick clatter-proof top. Five widths: 21", 24", 27", 30", 36". 36" size (shown) has two drawers. All others have single drawer. All 36" high, 24" front-to-back. All base cabinets have coved back-splashes.



**FOUR-DRAWER BASE CABINET.** Two deep and two extra-deep sturdy drawers on smooth-sliding, brass runners. Ideal for kitchen, pantry, laundry, or utility cabinet in the bathroom. All base cabinets have recessed toe space, are same height as Kitchenaid tops. Style above in three widths: 15", 21", 27". All 36" high, 24" front-to-back.



**SINGLE-DOOR BASE CABINET.** Two roomy compartments plus large single drawer. Door hinged right or left. Two widths: 15", 18". Both 36" high, 24" front-to-back. See page 15 for exclusive sealer inserts which assure *tight* seals wherever work surfaces meet in a Youngstown Kitchen. They're one more example of Youngstown Kitchen details.





↑ **AN INVITING**, family kitchen, where work is really a pleasure. A *safe* kitchen, where no disease-breeding garbage can accumulate. Mullinaider electric garbage disposer sees to that! By varying sizes and styles of Kitchenaiders, and the wall and base cabinets, you can adapt any Youngstown Kitchen arrangements in this book to larger or smaller floor space, depending upon your needs.

↓ **JUST TRY** to keep the youngsters and "that man" out of a kitchen like this! Meal preparation goes smooth as clockwork with all this easy-to-get-at work surface. From washing vegetables to dishing up dessert, your work flows from Kitchenaiders right along the counter. No work-day weariness . . . you stay serene because your *work is easier*. Truly, a Youngstown Kitchen becomes the heart of your home!



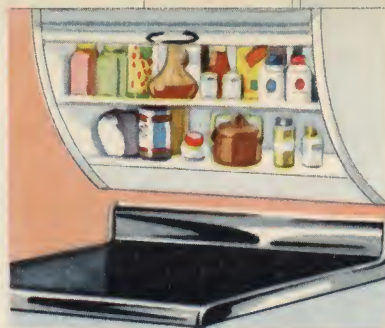


# Finally...add utility cabinets

And here are those extra touches that really "make" your kitchen. They're smart, yet practical as can be . . . out-of-the-ordinary units that help put every inch of kitchen space to work *the Youngstown way*.

Stumped for kitchen ideas? Browse through the kitchens pictured in this book. Adapt all you want from the arrangements shown. Let them suggest still more step-saving ways to combine your Youngstown units.

Remember, too, your Youngstown Kitchen dealer can show you still more kitchen suggestions . . . all at a price that makes you say, "That's for me!" No wonder Youngstown Kitchens are the outstanding kitchens today.



**ROLLING-DOOR CABINETS.** Fit under wall cabinets. Gleaming, white, plastic rolling doors slide up out of way. Spices, seasonings are handy to work surface, away from larger supplies. Two widths, 18" and 24". Both 14" high, 10" deep.



**WHAT-NOT SHELVES.** Place these graceful, strong little shelves by windows or in odd corners. Brighten your kitchen with small plants and colorful knick-knacks. You'll be pleasantly surprised at their shelf space. Baked-enamel finish, easily cleaned. Right and left hand models. 30" high x 7" x 10".



**BROOM CABINET.** Keeps broom, vacuum, oil mop and cleaning supplies in one place . . . out from under your feet! Like adding an extra closet to your kitchen. 21" wide, 84" high, 13" front-to-back.

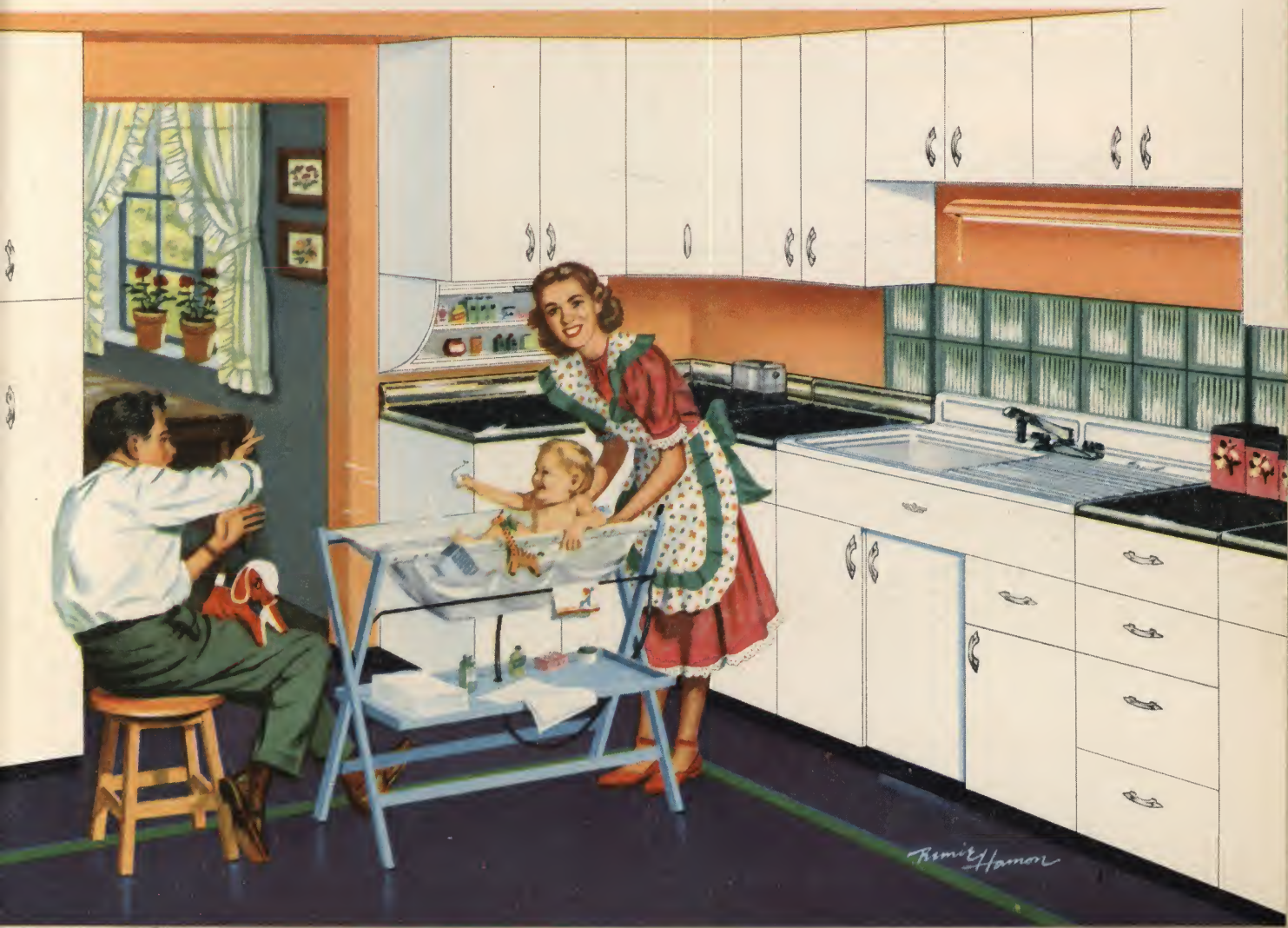
**LINEN CABINET.** Sturdy shelves. For kitchen, laundry or bathroom. Keep your linens dust-free. Matches Youngstown wall and base cabinets. 21" wide, 84" high, 13" front-to-back.





**ANOTHER WINNING** Youngstown Kitchen! Who wouldn't love to own it? Varied widths in Kitchenaiders and wall and base cabinets you adapt this same combination to a floor space of 57" to 102". Your Youngstown dealer will assist you in selecting units . . . measure your kitchen accurately . . . install Youngstown equipment quickly, without expensive alterations. Talk your ideas over with him.

↑ **HOW'S THIS**, too, for beauty on a budget? If you have 63" to 87" of floor space, better talk it over with hubby quick. Now look below. See how the same *basic styles* of Youngstown units have been rearranged and combined with other cabinets for a larger kitchen of a different shape. When it comes to dream schemes you can certainly see by now that no other kitchen can hold a candle to Youngstown! ↓





# There are cabine



ONE LOOK and a Youngstown Kitchen captures your heart . . . just by its beauty alone. But along with that beauty are thrilling work-saving features, too, the result of years and years of searching out what housewives want in kitchens. We know you're tired of makeshift shelves, squeeze-play cabinets, rickety work surfaces, of geegaws and dull drab fixin's. So look what we've done about it in every Youngstown cabinet, inside and out!

 *Youngstown Kitchens*  
BY MULLINS



**YOUNGSTOWN** cabinets are made to last a lifetime. No dirt-catching crevices inside or out . . . no sharp corners. They're *welded* together like a limousine chassis. Gleaming white-enamel finish is easy to keep spotless.



**FLOUR BIN.** Metal bin, on runners, may be pulled out for easy access. Has sifter and holds sufficient quantity of flour for ordinary kitchen needs. Fits in any Youngstown wall cabinet. Sold as extra equipment.



**WIDE, CLEAR** counters let you work through chores—elbow room to spread. Thick, tough, clatter-proof tops protect dishes, won't buckle. Watertight, stain-resistant steel binding grips edges.



**DOORS** on all Youngstown cabinets swing wide, giving easy access to back corners of all shelves. Sturdy hinges, invisible from outside, will never let doors sag. No bolts or rivets to rust or loosen.



**FINEST** hard-baked enamel finish gives Youngstown cabinets a glistening surface that resists dirt and grease. One swipe of a damp cloth—and they're sparkling clean in a jiffy. Your Youngstown Kitchen's always shining bright!



**BASE CABINETS** have 4" recessed space like Kitchenaiders. You stand close, comfortably while using counter workspace. Every Youngstown cabinet is designed to make those kitchen chores easy.



# Features right out of your dreams



**SEALING**, stain-proof chrome handles on doors and drawers of all Youngstown cabinets give your kitchen that "showcase" look. Stainless-steel kick-splasher on all base cabinets protects wall.



**VEGETABLE BASKET** fits sliding shelf on certain Kitchenaid cabinet sinks. Moleum bottom is easy to clean, and vegetables are always handy right where you need them.



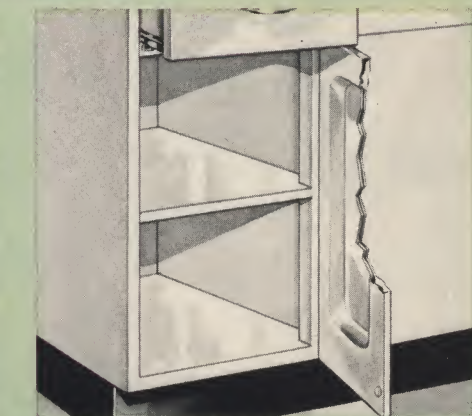
Base-cabinet corner filler with sealer inserts



Sealer inserts



**YOUNGSTOWN** base cabinets are the *right height* . . . give you wide avenues of work surface even with your Kitchenaid top. No more stooping. You stand straight, at ease. Wall cabinets are easily reached, no tip-toe stretching.



**ALL CABINET** doors and drawers are sound-insulated. Rubber bumpers prevent banging, slamming. Torpedo catches let doors close easily, *stay closed*. Drawers glide on satin-smooth brass runners. Typical Youngstown value!

**CONTINUOUS CORNER TOPS** provide a smooth, unbroken work surface. When used, sealer inserts are not required to join base-cabinet corner filler to adjoining base cabinets. Available in 61"x61" size (as shown) and 25" x 61", right or left hand. Measurements taken at wall.



**SMOOTH**, permanent, stainless-steel sealer inserts assure tight, dirt-proof, liquid-proof seals wherever work surfaces meet . . . cabinet to cabinet, cabinet to Kitchenaid. No unsightly crevices. Your work counters stay immaculately fresh, clean, sanitary.

Base-cabinet corner fillers permit work surfaces to turn corners . . . give you *continuous* counters wherever you plan to have base cabinets along two walls. Every detail worth thinking of in a kitchen is *yours* to enjoy in a Youngstown Kitchen.



**J**UST as you've always imagined it . . . right down to the last square inch of shelf and storage space! Not a chance to waste a step . . . not a pot or pan out of place!

And just think again how easily it can be done. Pick a Kitchenaid cabinet sink. Add matching Youngstown units. You've got it!

And what a work-saving beauty it is! Morning, noon or night . . . you sail through kitchen routines hardly realizing you're doing chores. *That's* how much a Youngstown Kitchen lightens your work! *That's* how many hours and steps a glistening, all-steel

Kitchenaid cabinet sink and matching wall and base cabinets save you every single day!

### Oh what magic!

From the time you fill that morning coffee pot, your Youngstown Kitchen helps you perform every kitchen task. Seeing that youngsters have a good, hot breakfast . . . fixing lunches . . . stacking dishes, washing, rinsing and putting them away. Lady, *there's* where your Youngstown Kitchen works magic for you.

Look at the kitchens on this page . . . kitchens with a bright future for you.



*presto*

**... that dream**



**IF YOU** plan to build, start thinking about your kitchen now. Never let it become an after-thought to the rest of the house. The more efficiently you plan your units, the more you save in building costs and extra steps as the years go by. See your Youngstown dealer first. Then talk over the Youngstown Kitchen you select with your builder and architect and have them fit it into your plans.

**IF YOU** expect to remodel, take a good look at your present kitchen. Find out where you have extra steps or work . . . and why. This will bring out forcefully that *the sink is the heart of your kitchen*. Now study the Youngstown Kitchenaiders on pages 4 and 5 again. One look tells you that whichever Kitchenaid you choose, you'll have a cabinet sink that can't be beat for saving time and work.







THE BIG easy-to-clean Youngstown cabinets shown in all these kitchens make wonderful extra-storage units for pantry, laundry or bath, as well. Put a utility cabinet for mops, vacuum or linens in an upstairs hall. Or a base cabinet to go beside your washing machine. If your husband is a professional man, tip him off that these same cabinets are ideal for medical and dental offices, too.

← LIVE ON a farm? There's no reason in the world you shouldn't have a bright, efficient Youngstown Kitchen, too . . . with all the storage space and counter surface the hustle-bustle of a farm kitchen demands. Shelves for preserves and supplies . . . base cabinets for roasters, kettles, pans . . . and a cabinet sink that's practically an extra "hand" when canning season rolls 'round.



## kitchen comes true !

Wide-stretching counter space lets you *whiz* along with meals. No clutter, no slow-ups . . . you work unhampered!

Vegetables, supplies, cups or kettles . . . everything's at your fingertips from morn till night. No cross-kitchen hikes or treks down cellar. No kitchen chaos! Your trim, all-steel Youngstown units beat that kitchen bedlam.

### See your Youngstown dealer

Ask your Youngstown Kitchen dealer to assist you in arranging various kitchens to fit your floor and wall space. You're under no obligation. Ask him about deferred payments, too. Budget terms are available through your dealer or local bank.

Where else can you arrange a smart, modern, all-new kitchen so easily? Where else can you find such sleek, smooth, dazzling units that combine so quickly with so little fuss or bother? Where but with Youngstown units?

You need not get involved in lengthy alterations. You have no frills or fancy planning theories to adhere to. *You* have exactly the kitchen *you* want in *your* floor area. No wonder Youngstown Kitchens are head and shoulders above the field!



*Youngstown Kitchens*

BY MULLINS





## See your Youngstown Kitchen in miniature first

Easy . . . ? You still have no idea!

Why, even *selecting* your Youngstown Kitchen is the simplest thing imaginable.

Begin by seeing your Youngstown Kitchen dealer. He can show you the whole Youngstown line . . . from magnificent steel Kitchen-aids to all the matching steel cabinets. Next he'll measure your kitchen—quickly, accurately—with an exclusive patented Youngstown Kitchen measuring rule.

Then he'll show you miniature arrangements

of all types of kitchens. Kitchens on one wall, on two, or three . . . anything you want to see . . . all on a small floor model that duplicates your own kitchen area. For Youngstown dealers have stunning, novel Min-A-Kitchen models—miniature Youngstown units in plastic that you can arrange and rearrange all you want until you have the snuggest, best-looking, most compact kitchen possible.

There's no wondering or guessing how your kitchen will work out. You know because you see it in advance. And to help you make it as perfect as a kitchen can be, we've prepared some planning hints. Just see the next page.



*Youngstown Kitchens*

BY MULLINS



# Common sense is all it takes

Don't worry because you may think you have no "knack" for kitchen planning. You already know in your heart how you want your kitchen. Common sense will do the rest.

Think of your kitchen in terms of what your appliances do . . . what is left for you to do. You *walk, stoop, reach, bend*. You *chase after* supplies. You *store away* and *take out* pots, pans, plates and pails. Plot your kitchen to reduce this work.

You are at the sink more often and longer than any other spot in the kitchen. Make sure working surfaces and storage space are close to your Kitchenaid to give you a concentrated supply and working center.

Keep these further tips in view, too, as you look at the gleaming, plastic Min-A-Kitchen arrangements at your Youngstown dealer's.

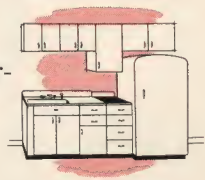
**1** The sink does not have to be placed near, or even centered under, a window. If you can save plumbing costs or have a better arrangement on an inside wall, put it there and install cabinets over the bowls for extra storage space.

**2** If you can get more counter surface or storage area near the sink by moving the range or refrigerator, do so. It will be worth it, because you will use your new kitchen for years.



**3** If possible, place a base cabinet or two near doors. You'll have handy counter surface for trays, parcels, bundles.

**4** Use short cabinets above range, refrigerator and sink bowls.



**5** Put useless corners to *work* with corner wall cabinets and base cabinet fillers.

## Housewife's heaven at hubby's price



**V**ERY NATURALLY, you're wondering about the cost of a Youngstown Kitchen in dollars and cents.

So let's talk about it now. Let's take the kitchen on the front cover of this book as an example. That gleaming beauty can be installed *complete* in your home for only a few dollars a month on most budget plans, including financing through your Youngstown Kitchen dealer or your local bank.

That includes the Kitchenaid, the utility cabi-

nets, the wall and base cabinets and the what-not shelves just as you see them! The other gleaming Youngstown Kitchens pictured can also be purchased on low monthly budget plans.

But that's not all. Again we'd like to mention that if you're planning to remodel, a Youngstown Kitchen can be installed without lengthy alterations. In fact, we urge you to avoid them. Structural changes are costly and often lead to still more alterations. Your budget might better be used for more cabinets, a larger sink, or more work surface.

If you're planning to build, here's more good news. Total cost for total cost, your new all-steel kitchen will probably run no more—and very likely even less—than an old-fashioned built-on-the-job installation. And it will last a lifetime without warping, buckling. Your builder knows all about Youngstown Kitchens.

How's that for a housewife's heaven . . . right at hubby's price? Lady, you just can't beat it!





## Your Youngstown dealer will help you

Your Youngstown Kitchen dealer is ready to give you every assistance. He's specially trained to do just that!

Be sure to talk your plans over with him. Ask him any questions as often as you want.

He is an expert on modern kitchens, fully trained at the Youngstown plant. He can give you scores of tips and suggestions.

*Finally, he has a convenient payment plan, or he can recommend a modern home-financing institution in your community, through which you can finance your new kitchen if you wish.*

Those are the easy steps to take to own the kitchen you've always wanted. So . . . why put off that new kitchen any longer? SEE YOUR YOUNGSTOWN KITCHEN DEALER TODAY.



*Youngstown Kitchens*

BY MULLINS

MULLINS MANUFACTURING CORPORATION, WARREN, OHIO

World's Largest Makers of Steel Kitchens



# They're new and exciting!

## WONDERFUL 1950 YOUNGSTOWN KITCHENS



There's everything you want for *your* kitchen in these beautiful new Youngstown Kitchens for 1950.

Sparkling new beauty! Wonderful new convenience! Remarkable new utility! We made constant improvements in 1949, introduced new products—and now for 1950, we add *more* features, make more improvements to maintain leadership for Youngstown Steel Kitchens.

### NEW DIE DESIGNS

All Youngstown 1950 Cabinet Sinks, base cabinets and wall cabinets are made from newly designed dies, giving new contours and sparkling new finishes that only die-made steel can

give. The Cabinet Sink tops are of finest porcelain enamel, with new "no-tip" drainboard fluting. Cabinet edges and corners are remarkably easy to clean. In every way, your 1950 cabinets are perfect matches for your Youngstown Cabinet Sink.

### NEW COLOR: PERFECT HARMONY

New color! Ten exclusive new Cusheen cabinet top colors to glorify any kitchen. Also a new Maple Cutting Board Cabinet Top for greater convenience. Gleaming white finish of all Youngstown cabinets harmonizes perfectly with any color scheme selected, and allows complete freedom in determining kitchen background colors.





# REMARKABLE

**Never before such a  
wonderful material!**

*Youngstown Cusheen*

**CABINET TOPS  
BONDED TO STEEL**

**Exclusive with Youngstown**

**TOUGH...RUGGED...DURABLE!  
SPARKLING IN BEAUTY!**

THERE'S everything you want in kitchen cabinet tops, plus more than you even hoped for, in new Youngstown Cusheen.

Great wearing ability, striking colors that glamorize your kitchen, quiet, clatter-proof qualities, resistance to heat—these and many other cabinet top features never before available in one material are now all yours in Youngstown Cusheen.

It took years of search and study, thousands of exacting laboratory tests, before the makers of Youngstown Kitchens found this totally new material. Youngstown Cusheen is exclusive, available only with Youngstown Kitchens.

**You get extra value**

You'll be proud as a peacock in your gleaming, white Youngstown Kitchen with glorious, colorful Cusheen tops.

Talk about beauty! This is it! A rich and colorful Cusheen top surface, bonded to steel, plus the always-popular, brilliant chrome trim that beautifies the back-splash and also the front edge, where top meets cabinet. Youngstown base cabinet tops are *shaped* for beauty, too, with rounded, eye-pleasing contours.

**KITCHEN** *Beauty*  
**BEYOND COMPARE!**

**10 Cusheen COLORS**

Ten gorgeous Cusheen colors give you wide new freedom for planning kitchen color schemes.

Stimulate your color imagination! Sparkling colors in new Cusheen tops accentuate perfectly the easy-to-clean, immaculate Youngstown units of white-enamelled steel.

Get your favorite color harmony! Ask your Youngstown Kitchen dealer for help in selecting Cusheen top colors that accentuate best your own kitchen color scheme.

**MULLINS MANUFACTURING CORPORATION**  
**WARREN, OHIO**

World's Largest Makers of Steel Kitchens

**ONLY WITH** *Youngstown Kitchens*



# Cusheen Tops!

ALL THIS IS YOURS  
WITH YOUNGSTOWN *Cusheen*



#### 1. GREAT WEARING ABILITY

Cusheen tops outwear best previous top materials as much as two-and-a-half times to one.



#### 2. QUIETNESS

Cusheen tops have a sound-proofing surface. Your kitchen will be quieter, more pleasant to work in.



#### 3. IMPACT RECOVERY

There's extra resistance to blows and impacts with Youngstown Cusheen cabinet tops.



#### 4. DISH-PROTECTING

Cusheen tops are clatterproof, cushioned to help protect dishes and fine glassware.



#### 5. BONDED TO STEEL

Cusheen Tops consist of six layers bonded under pressure to steel. Will not support combustion.



#### 6. STAIN-RESISTANT

Cusheen is unaffected by food acids, alcohols, alkalis, and other substances commonly found in kitchens.

DO YOU GET

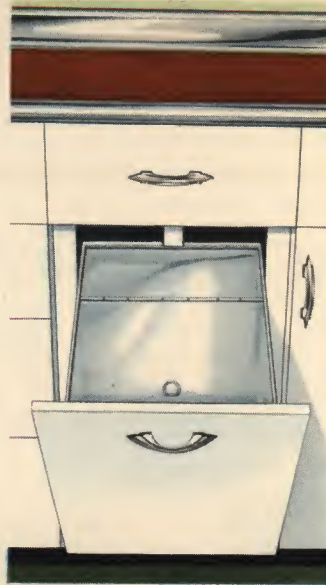
# *Cusheen Tops!*



# New Convenience! New Utility! New Sparkle!



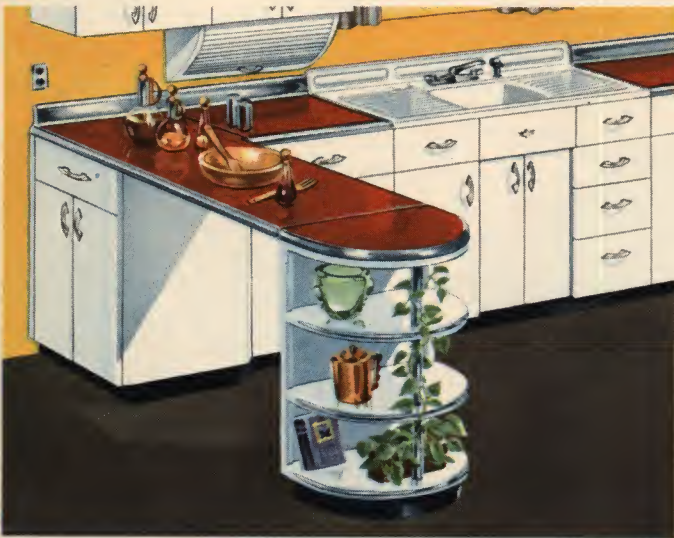
**YOUNGSTOWN KITCHENS ROTARY CORNER BASE CABINET:** Remember that back part of your kitchen corner, how difficult it was to reach? Now you can use all the reachable corner space. The new Youngstown Rotary Corner Cabinet shelves revolve. Inside shelves turn at finger-tip touch, and you can bring any part to the front . . . where storage or removal of items is quick and easy. Back shield prevents articles from falling in corner. Built of sturdy steel.



**YOUNGSTOWN KITCHENS FLOUR BIN BASE CABINET:** Throw away the old flour can that always got in the way. The new Youngstown Flour Bin Base Cabinet holds *fifty pounds* of flour. Keeps it dry and convenient. Simply slip open the bin, lift the hinged steel lid, and flour is easy to reach. The Youngstown Flour Bin Base Cabinet is 15" wide, includes a drawer at top, matches all Youngstown base cabinets.



**YOUNGSTOWN MAPLE CUTTING BOARD CABINET:** TOP: Here's *practical* beauty. This new cutting board top for Youngstown cabinets is just the thing for cutting meats, bread, vegetables, other foods. It's hard maple, 1 1/4" thick, shaped to match other Youngstown cabinet tops. Laminated side-to-side construction gives an edge-grain work surface remarkably tough and durable. Up to 24" wide.



**YOUNGSTOWN KITCHENS BREAKFAST BAR AND HALF-ROUND BASE WHAT-NOT:** Wonderful new Breakfast Bar for easier meals and pleasant snacks. Extends cabinet-top surfaces and matches perfectly. Shown here with half-round Base What-Not which provides perfect finishing touch for Breakfast Bar, and beautifies the kitchen.



**YOUNGSTOWN KITCHENS QUARTER-ROUND BASE WHAT-NOT:** For that spot in your kitchen where base cabinet end and need decoration, here's the solution. It's primarily decorative handsomely trimmed in chrome, designed to make your kitchen beautiful. But it's useful, too. Excellent for small appliances. Or you can perk up your kitchen with china on display, or vases, or what-have-you. Like all Youngstown units, it's built of steel to last a lifetime.

 **Youngstown Kitchens**

Important: Mullins Manufacturing Corporation reserves the right to make changes at any time without notice in prices, material, equipment, specifications and models and also to discontinue models.















